

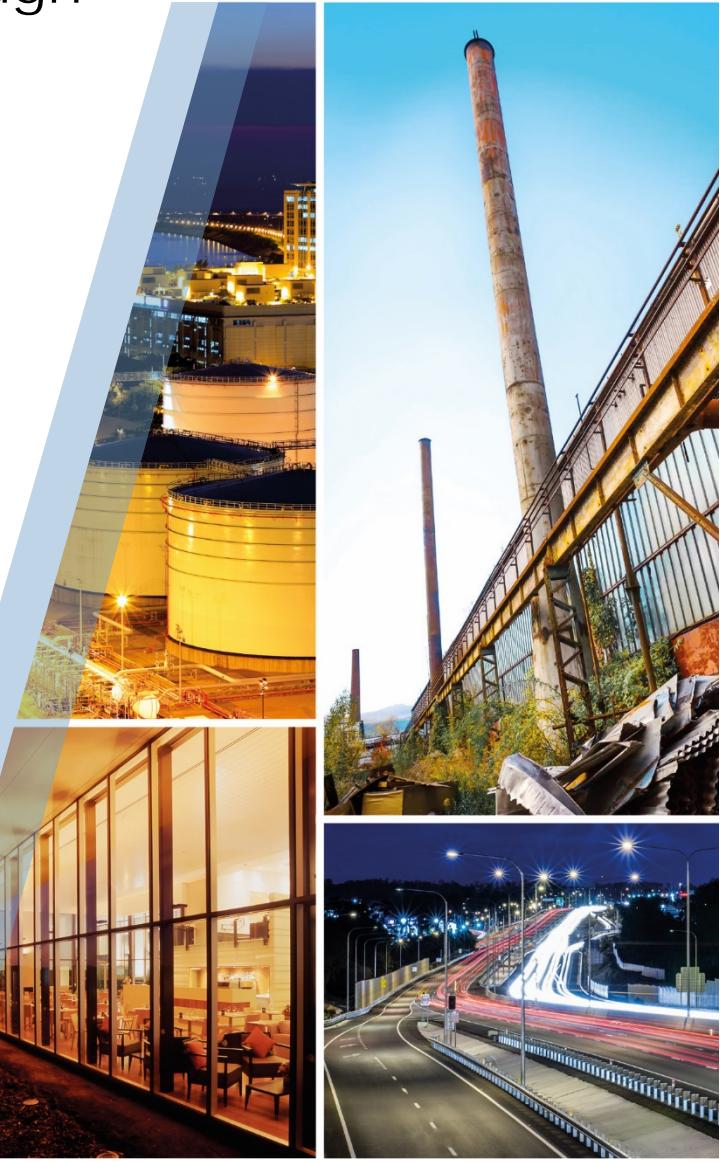


Second VRP Progress Report

January 1, 2018 through June 30, 2018

1610 Southland Circle
Atlanta, Georgia

Southland Circle Property
(HSI # 10077)



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Southland Circle Property (HSI No. 10077)
1610 Southland Circle
Atlanta, Georgia

Professional Geologist Statement

I certify that I am a qualified groundwater scientist who has received a baccalaureate or postgraduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared in conjunction with others working under my direction.

Terefe Mazengia, PG # 1981

Printed Name (Professional Geologist)



Signature (Professional Geologist)



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1. Introduction and Background

GHD, on behalf of CBS Corporation (CBS), prepared this Second Semi-annual Progress Report for the reporting period of January 1, 2018 through June 30, 2018 for the Southland Circle property located at 1610 Southland Circle in Atlanta, Georgia. This Progress Report (Progress Report #2) is prepared to meet requirements outlined in the Georgia Voluntary Remediation Program Act (VRPA). Information and data contained in this Progress Report are provided in a streamlined format and additional information, if required, can be provided to the Georgia Environmental Protection Division (EPD) upon request.

1.1 Introduction

GHD, on behalf of CBS, submitted a Voluntary Remediation Program Application, dated November 29, 2011, to Georgia EPD for the property located at 1610 Southland Circle (fkt “Indcon”), Atlanta, Georgia, HSI No. 10077 (qualifying property). The Application was approved by Georgia EPD in a letter dated June 30, 2017 with comments and requests for additional sampling. The Site Layout is provided as Figure 1.

CBS is the corporate successor to Westinghouse Electric Corporation (Westinghouse), which occupied the qualifying property from 1965 to 1971. EPD identified Westinghouse as one of several Responsible Parties or Potentially Responsible Parties for the Site under the Georgia Hazardous Sites Response Act (HSRA) program. CBS has not owned or controlled the property or occupied the building since 1971. Several owners or tenants have conducted industrial and commercial activities at the property since the termination of Westinghouse vacated the premises 46 years ago. The property is presently owned and occupied by Guy T Gunter (GTG) & Associates and used as a showroom and warehouse for household appliance retailing. CBS investigation and remediation activities are being coordinated with the current property owner.

2. Work Performed During Reporting Period

The Sampling and Analysis Plan (SAP) was presented in the First Semi-Annual Progress Report and included an approach for collection, analysis, and evaluation of samples of each media (soil, groundwater, sediment and surface water) at the Site. This Section describes the sample collection and analyses conducted during this reporting period.

2.1 Monitoring Well Installation

GHD installed two shallow replacement monitoring wells (MW-8R and MW-13R) and one new deep bedrock monitoring well (MW-8D) at the Site in order to further delineate the horizontal and vertical extent of impact in groundwater at the Site.

Monitoring wells were installed in general accordance to the United States Environmental Protection Agency (USEPA) Region 4, Science and Ecosystem Support Division (SESD), *Field Branches and Quality System and Technical Procedures* (FBQSTP)¹ and GHD’s Standard Operating Procedures

¹ SESD, Guidance Number SESDGUID-101-R1.



(SOPs). The two shallow replacement monitoring wells were drilled to approximately 31 feet below ground surface (bgs) using 4½-inches inside diameter hollow stem auger (HSA) drilling techniques. The bedrock monitoring well was drilled to a depth of approximately 72 feet using a combination of HSA and air rotary drilling techniques.

Both replacement monitoring wells were completed with standard 2-inch diameter PVC casing with 10-foot machine slotted #10, schedule 40 PVC screen over the 20 to 30-foot below grade surface (bgs) interval. The deep monitoring well was installed using a 4-inch diameter PVC surface casing to a depth of approximately 57 feet bgs and was completed with a 2-inch diameter PVC casing with 10-foot machine slotted #10, schedule 40 PVC screen over the 58.8 to 68.8-foot bgs interval. The annular space around the wells was filled with sand to a depth of approximately 2-feet above the top of the screened interval. A nominal 2-foot thick layer of bentonite chips was poured in above the sand to create a seal for the non-cased replacement wells. The remaining space was filled with cement and bentonite grout mix. The wells were finished with flush mount well covers within a 2-foot by 2-foot concrete pad and secured with locks.

The monitoring wells were developed after well construction to remove any silt introduced during the well installation process. A total of 20 gallons of groundwater was removed from each of the shallow replacement wells and a total of 80 gallons of groundwater was removed from the bedrock well. Well construction logs and well development forms are provided in Appendix A.

Soil cuttings and water generated during well installation, decontamination of augers, well development, purging and sampling activities were drummed and staged on-Site for subsequent characterization and off-Site disposal.

2.2 Groundwater Monitoring

2.2.1 Groundwater Elevation

Depth to groundwater was measured in all new and existing monitoring wells on June 6, 2018. Water level data were reduced to a common vertical datum based on the surveyed top of casing (TOC) elevations. Table 1 provides the depth to water measurements and corresponding groundwater elevations. The groundwater elevation data were further evaluated to show groundwater flow direction as shown on Figure 2. Groundwater generally flows toward the east with an average hydraulic gradient of approximately 0.05.

2.2.2 Groundwater Sampling

Groundwater measurement and sampling procedures were conducted in general accordance with the USEPA Region IV FBQSTP guidance documents². All samples were collected in laboratory supplied containers with appropriate preservative as specified by the method.

Prior to groundwater sampling, each monitoring well was purged using low flow purging (LFP) or multi-volume purging technique. The LFP technique was performed using a peristaltic pump fitted with new disposable polyethylene tubing prior to use in each well. During purging, the water level was measured, and field parameters (i.e., pH, conductivity, turbidity, temperature, dissolved oxygen [DO], and oxidation reduction potential [ORP]) were recorded every five minutes using a Horiba

² SESD, Guidance Numbers SESDPROC-105-R2 and SESDPROC-301-R3.



U-53 with flow through cell. Drawdown in monitoring well MW-4 and MW-11 was recorded slightly above the standard drawdown of 0.30 feet, therefore the multi-volume purge technique was performed prior to sampling these wells. Monitoring well MW-4 went dry after two well volumes of groundwater had been purged and was allowed to recharge prior to sampling.

The flow through cell was decontaminated prior to use at each well location. Flow rates were monitored and maintained within a steady range to minimize drawdown of the water column. Stabilization of parameters in the groundwater in the screened interval was evaluated using the real time parameter data measured by the flow through cell of a calibrated Horiba U-53 and was determined complete when three consecutive sets of parameter measurements were within the appropriate range³.

Following stabilization of field measured parameters for purging, the flow through cell was disconnected and groundwater samples were collected directly from the discharge end of the pump. Purge water was transferred into the equalization tank of the pump and treat system on site for treatment. Appendix B provides summary of field measurements that were recorded during purging and sampling activities for each monitoring well location.

A total of 16 monitoring wells on the Site were sampled during the June 2018 sampling event. A blind duplicate groundwater sample was collected from monitoring well MW-8R (GW-018876-060518-SAG-007). Matrix spike/matrix spike duplicate (MS/MSD) samples were collected from monitoring well MW-2 (GW-018876-060518-SDL-102). The duplicate and MS/MSD samples were collected for quality assurance/quality control (QA/QC) purposes and the data were independently validated by a GHD chemist.

All samples were stored in ice-filled coolers and hand delivered to Pace Analytical Services (Pace) in Peachtree Corners, GA under proper Chain-of-Custody (COC) protocols for analyses.

2.2.3 Analytical Results

Groundwater samples collected from each of the 16 sampled monitoring wells were submitted for laboratory analysis for VOCs by EPA Method 8260, nine sampled monitoring wells were submitted for laboratory analysis for PCB aroclors by EPA Method 8082, and five sampled monitoring wells were submitted for laboratory analysis for PCB homologs by EPA Method 1668.

One or more PCB aroclors (particularly PCB-1242) were detected above the Type 4 Risk Reduction Standards (RRS) for groundwater in five monitoring wells: MW-3, MW-4, MW-12, MW-12D, and RW-1. PCB aroclors detections are generally consistent with the historical data for the Site and located in the northwestern portion of the Site, with the exception of MW-4, which did not have PCB aroclor detection during previous sampling events. Various Chlorinated compounds exceeding the Type 4 RRS were detected in four monitoring wells: MW-2, MW-3, MW-8D, and MW-12. These detections are consistent with historical sampling results with the exception of MW-8D which is a new monitoring well.

³ pH ±0.1 pH units of the average value of the three readings; temperature ±3 percent of the average value of the three readings; conductivity ±0.005 millisiemens per centimeter (mS/cm) of the average value of the three readings for conductivity <1 mS/cm and ±0.01 mS/cm of the average value of the three readings for conductivity >1 mS/cm; ORP ±10 millivolts (mV) of the average value of the three readings; DO ±10 percent of the average value of the three readings; and turbidity ±10 percent of the average value of the three readings or a final value of less than 10 NTU.



All PCB Homolog detections in the groundwater samples matched with the PCB aroclor detection. Overall, the total PCB homolog detections were reported higher than the PCB aroclor detections. The highest PCB concentrations were detected at RW-1, MW-3, MW-12, MW-12D and MW-2.

The laboratory analytical report along with the field sample key and DV memo for the groundwater samples is provided in Appendix C. Table 3 provides the groundwater analytical data summary for the compounds analyzed.

2.3 Soil Sampling

Soil sampling was conducted at seven locations on the Site: SB-1-2018 through SB-7-2018. Samples at locations SB-1-2018 and SB-2-2018 were collected via direct push drilling techniques (DPT) and samples at the other five locations were collected via hand augering. Soil samples collected via DPT were extracted from dedicated acetate tubes and hand auger equipment was decontaminated between each sampling location. Soil sampling locations are shown on Figure 3.

Soil samples were collected within the upper 2 feet of the soil profile at each location and additional soil samples were collected from the 13 to 15-foot interval at SB-1-2018 and from the 6 to 8-foot interval at SB-2-2018. A blind duplicate soil sample was collected from sampling location SB-6-2018 (SO-018876-060718-SAG-403).

All samples were stored in ice-filled coolers and hand delivered to Pace in Peachtree Corners, GA under proper COC protocols for analyses.

Soil samples collected from each of the seven sampled locations were submitted for laboratory analysis for PCB aroclors by EPA Method 8082, five sampled locations were submitted for laboratory analysis for PCB homologs by EPA Method 1668, and the two samples from SB-1-2018 were submitted for laboratory analysis for VOCs by EPA Method 8260 and percent moisture.

PCB aroclor-1254 was detected above the Type 4 Risk Reduction Standards (RRS) in one of the shallow soil borings (SB-3-2018) along the northern edge of the drainage channel in closest proximity to the historical PCB release. Aroclor PCB-1254 and PCB-1260 were also detected at levels below the RRS at two downstream sampling locations, SB-6-2018 and SB-7-2018.

All PCB homolog detections in soils were below the reporting limit or the Type 4 RRS with the exception of soil sample locations SB-3-2018 and SB-7-2018 located north of the drainage channel.

Table 4 provides the analytical data summary for the compounds analyzed in the soil samples. The laboratory analytical report along with the field sample key and DV memo is provided in Appendix C along with the other sampled media.

2.4 Sediment/Surface Water Sampling

Surface water and sediment sampling was conducted at two locations shown on Figure 4. Both sampling locations are located within the intermittent waterway flowing through the northern portion of the property. SD-1-2018 is located to the west and slightly up gradient of the property and SD-2-2018 is located to the east and down gradient of the property. Surface water samples were collected directly into the sample containers and sediment samples were collected using stainless



steel scoop decontaminated between sampling locations. Sediment samples were collected from the upper 0.5 feet.

Sediment and surface water samples collected from each of the sampled locations were submitted for laboratory analysis for PCB aroclors by EPA Method 8082, PCB homologs by EPA Method 1668, and VOCs by EPA Method 8260.

PCE was detected at a concentration slightly exceeding the Georgia In-Stream Water Quality Standards (GISWQS) for surface water at the upstream sampling location located to the west of the qualifying property. No PCB aroclors or VOCs exceeding the GISWQS were detected in the surface water sample collected from the downstream location. A small exceedance of the instream water quality of PCE was reported in the upgradient sample location. Total PCB homolog results were detected above the GISWQS at both sample locations.

No exceedances of the Type 4 RRS for PCBs or VOCs were reported in the sediment samples collected from both upstream and downstream locations. Total PCB homologs were detected above the Type 4 RRS at the downgradient sample location.

The laboratory analytical report for surface water and sediment is provided in Appendix C. Data summaries for the detected compounds in surface water and sediment collected from each of the sampling locations are provided on Tables 5 and 6, respectively.

2.5 Off-Site Access Request

In a letter dated June 28, 2018, GHD requested permission from Southland Circle Marx LP to access the property located at 1561 Southland Circle NW, Atlanta, Georgia. This property is directly down gradient in relation to the qualifying property and the installation of a groundwater monitoring point on this adjoining property was requested by GA EPD. The Property Access Agreement and letter to the property owner are included as Appendix D.

Upon execution of a Property Access Agreement between Southland Circle Marx LP and CBS, GHD plans to install one groundwater monitoring well on the Southland Circle Marx LP property. This monitoring well will be monitored thereafter as part of the sampling program for the Site.

3. Next Submittal

The next submittal for this Site will be the Third Semi-Annual Progress Report for the reporting period of July through December 2018. This upcoming Report will detail all activities performed at the Site during the reporting period and provide additional information concerning upcoming investigative or remedial activities.

3.1 Vapor Intrusion Assessment

Historical soil vapor sampling data show the presence of various VOCs in soil vapor in the vicinity of the drainage channel along the north side of the qualifying property and in the 50-foot slab area. Based on these detections and the potential for exposure to the occupants of the qualifying property building, sub-slab soil vapor samples will be collected and analyzed in order to determine potential inhalation risk factors for building occupants.

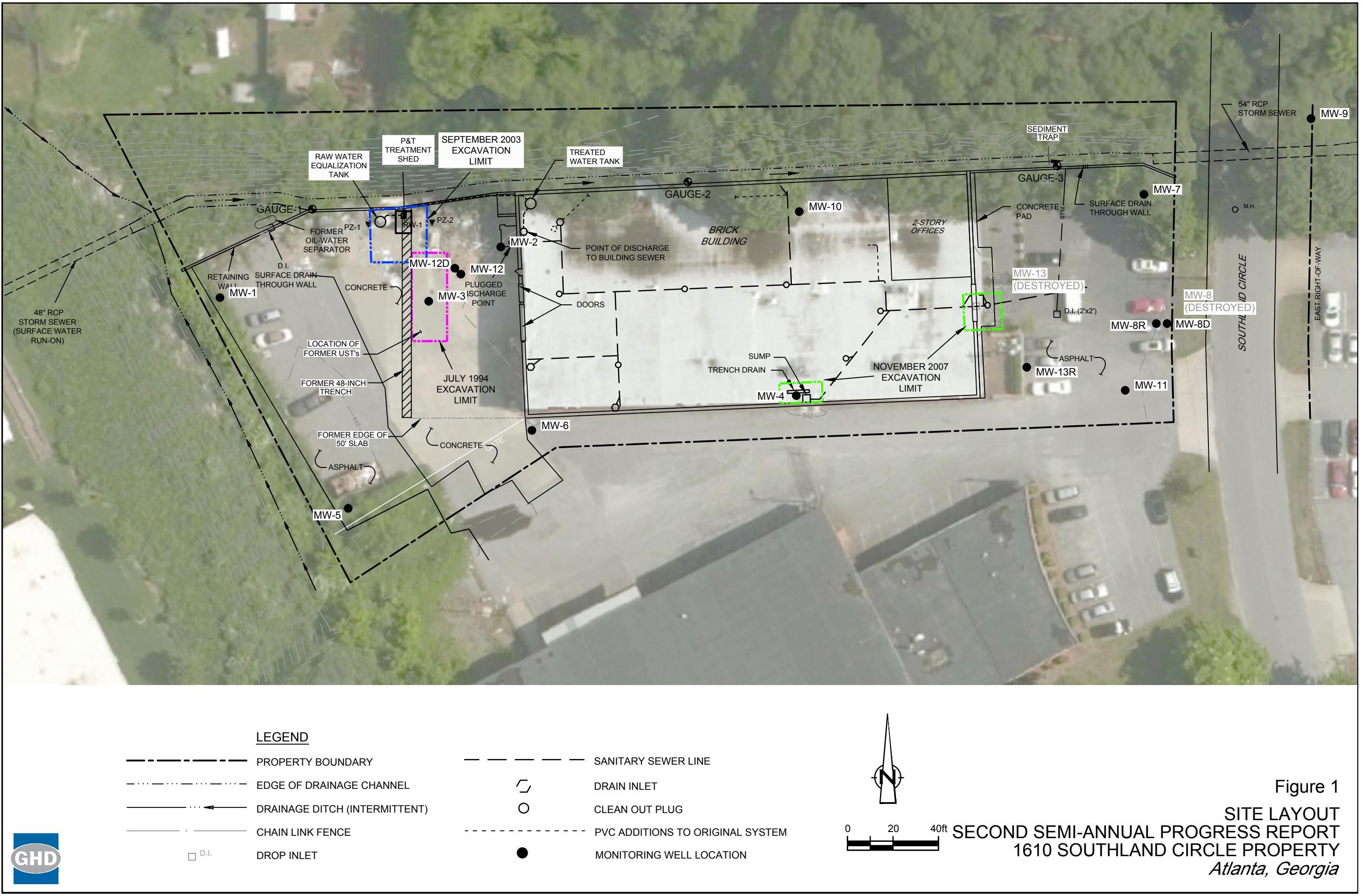


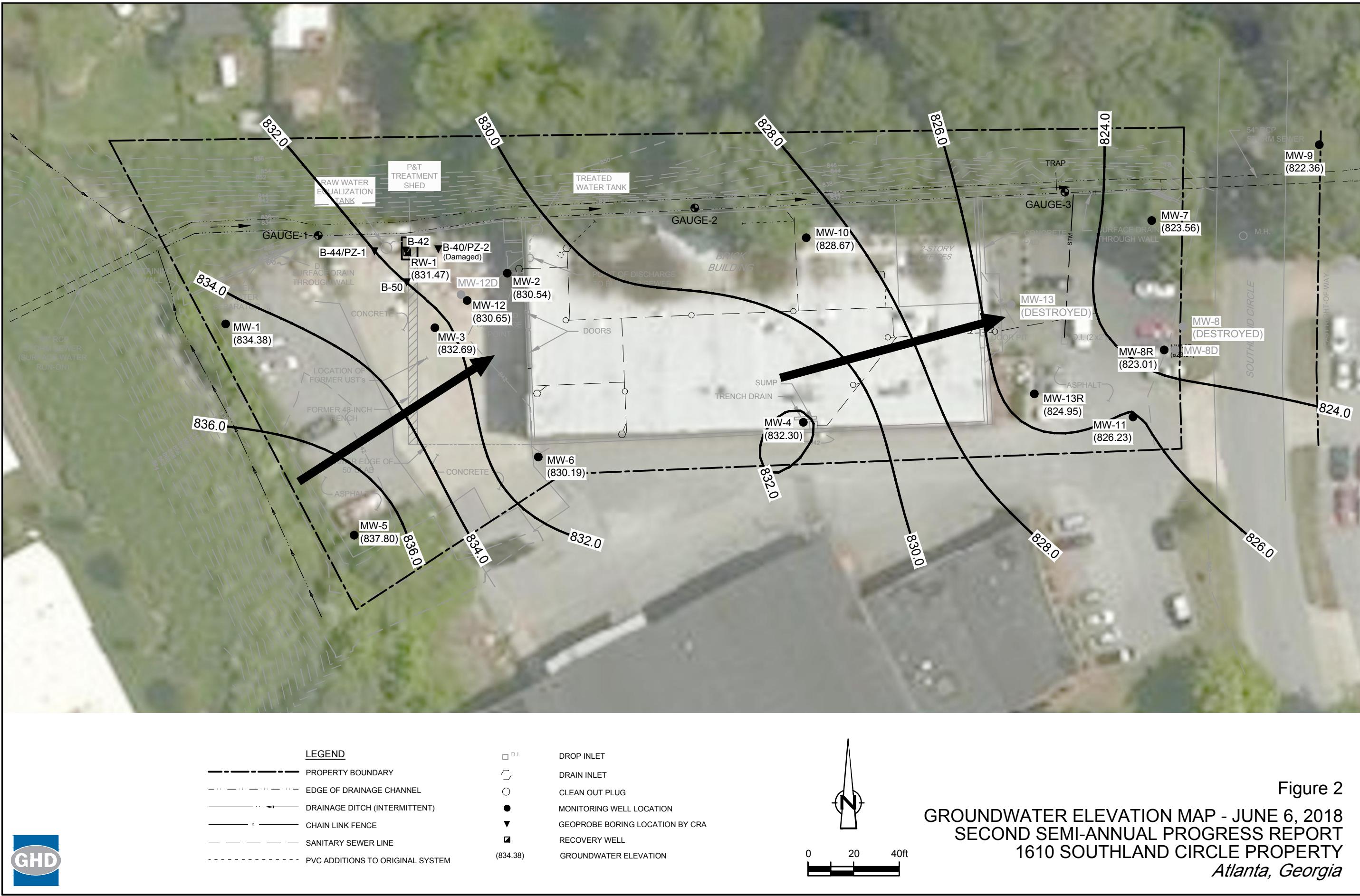
GHD proposes to install up to six soil vapor sampling points inside the building at the qualifying property at the following locations: northwest building corner, southwest building corner center of the warehouse, southern portion of the showroom, southwestern and northeastern portions of the office area. In the event that the property owner does not consent to the installation of vapor points at any of the interior locations, those vapor points will be moved to nearby locations immediately adjacent to the building on the exterior of the building.

A single grab sample will be collected from each sampling point in general accordance with the *EPA Region IV Soil Gas Sampling Operating Procedures*. A single-use 0.5-liter Summa canister will be used to collect each sample, and the samples will be submitted for laboratory analysis for toxic organic compounds by EPA Method TO-15. The analytical results will be entered into the EPA Vapor Intrusion Screening Level (VISL) calculator for comparison to individual and aggregate carcinogenic and non-carcinogenic toxicity risk values.

4. Professional Hours

EPD requires that a professional engineer or geologist oversee the implementation of the VIRP in accordance with the provisions, purposes, standards and policies of the Georgia Voluntary Remediation Program Act. A monthly summary of hours and services invoiced for Terefe Mazengia, PG during the period starting from January 1, 2018 through June 30, 2018 are provided in Appendix E.









LEGEND

- PROPERTY BOUNDARY
- EDGE OF DRAINAGE CHANNEL
- DRAINAGE DITCH (INTERMITTENT)
- DRAINAGE DITCH (INTERMITTENT)
- STAFF GAUGE LOCATION
- SURFACE WATER AND SEDIMENT SAMPLE LOCATION
- SEDIMENT TRAP

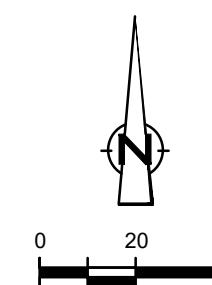


Figure 4
SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS
SECOND SEMI-ANNUAL PROGRESS REPORT
1610 SOUTHLAND CIRCLE PROPERTY
Atlanta, Georgia

Table 1

Groundwater Elevations
1610 Southland Circle
Atlanta, Georgia

Well Number	Depth to Water (ft-bgs)	Top of Casing Elevation (ft-msl)	Groundwater Elevation (ft-msl)	
			June 6, 2018	May 24, 2016
MW-1	7.20	841.58	834.38	833.23
MW-2	11.19	841.73	830.54	830.29
MW-3	8.18	840.87	832.69	827.95
MW-4	9.76	842.06	832.30	829.84
MW-5	4.41	842.21	837.80	837.29
MW-6	10.94	841.13	830.19	829.51
MW-7	17.11	840.67	823.56	823.27
MW-8R ⁵	18.63	841.64	823.01	--
MW-8D ⁶	18.77	841.70	822.93	--
MW-9	18.43	840.79	822.36	822.63
MW-10	13.25	841.92	828.67	828.64
MW-11	15.42	841.65	826.23	825.79
MW-12	11.18	841.83	830.65	830.05
MW-12D	12.09	841.64	829.55	829.43
MW-13R ⁵	15.19	840.14	824.95	--
PZ-1	8.44	841.11	832.67	832.39
PZ-2 ⁴	--	841.55	--	--
RW-1	10.69	842.16	831.47	830.38

Notes:

1. For groundwater contour map, see Figure 2.
2. Bottom of screened interval.
3. "--" Monitoring wells not measured or didn't exist during this event.
4. PZ-2 - Not accessible, well damaged.
5. Wells MW-8R and MW-13R were installed in June 2018 as replacement for MW-8 and MW-13 which were damaged.
6. Monitoring well MW-8D is a new deep well installed in June 2018.

Table 2

Surface Water Elevations
1610 Southland Circle
Atlanta, Georgia

Gauging Stations	Depth to Water (ft-bgs)	Top of Staff Gauge Elevation (ft-msl)	Surface water Elevation (ft-msl)		change from
			June 6, 2018	May 25, 2016	
Gauge-1	0.22	837.07	836.85	833.97	2.88
Gauge-2	0.50	836.05	835.55	833.19	2.36
Gauge-3	0.64	834.28	833.64	831.50	2.14

Notes:

1. Surface water levels were measured from top of staff gauges (staff gauges are 3.33 feet long)

Table 3

Summary of Recent Groundwater Analytical Data
1610 Southland Circle
Atlanta, Georgia

Parameter	Units	Type 4 GW RRS	MW-1 2/20/2013	MW-1 5/24/2016	MW-1 6/4/2018	MW-2 2/20/2013	MW-2 5/24/2016	MW-2 6/4/2018	MW-3 2/20/2013	MW-3 5/24/2016	MW-3 6/6/2018	MW-4 2/19/2013	MW-4 5/24/2016	MW-4 6/6/2018	MW-5 2/20/2013	MW-5 5/24/2016	MW-5 6/4/2018	MW-6 2/19/2013	MW-6 5/24/2016
		Duplicate																	
PCB Aroclors																			
Aroclor-1016 (PCB-1016)	µg/L	3.7164	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	-	--	--	--	
Aroclor-1221 (PCB-1221)	µg/L	0.5	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	-	--	--	--	
Aroclor-1232 (PCB-1232)	µg/L	0.5	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	-	--	--	--	
Aroclor-1242 (PCB-1242)	µg/L	0.5	-	--	--	0.50 U	1.3	0.50 U	4.3	6.2	7.3	0.50 U	0.50 U	0.50 U	-	--	--	--	
Aroclor-1248 (PCB-1248)	µg/L	0.5	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	-	--	--	--	
Aroclor-1254 (PCB-1254)	µg/L	0.5	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.89	--	--	--	
Aroclor-1260 (PCB-1260)	µg/L	0.5	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.56	--	--	--	
PCB Homologs																			
Monochlorobiphenyls C12 H9 Cl	µg/L	NS	-	--	--	-	--	0.486	-	--	0.301	-	--	--	--	--	--	--	
Dichlorobiphenyls C12 H8 Cl2	µg/L	NS	-	--	--	-	--	0.528	-	--	2.9	-	--	--	--	--	--	--	
Trichlorobiphenyl	µg/L	NS	-	--	--	-	--	0.405	-	--	4.42	-	--	--	--	--	--	--	
Tetrachlorobiphenyl	µg/L	NS	-	--	--	-	--	0.227	-	--	5	-	--	--	--	--	--	--	
Pentachlorobiphenyl	µg/L	NS	-	--	--	-	--	0.127	-	--	0.481	-	--	--	--	--	--	--	
Hexachlorobiphenyls C12 H4 Cl6	µg/L	NS	-	--	--	-	--	0.0399	-	--	0.0114	-	--	--	--	--	--	--	
Heptachlorobiphenyls C12 H3 Cl7	µg/L	NS	-	--	--	-	--	0.0129	-	--	0.00075	-	--	--	--	--	--	--	
Octachlorobiphenyl	µg/L	NS	-	--	--	-	--	0.00235	-	--	0.00025 U	-	--	--	--	--	--	--	
Nonachlorobiphenyls C12 HCl9	µg/L	NS	-	--	--	-	--	0.000249 U	-	--	0.00025 U	-	--	--	--	--	--	--	
Decachlorobiphenyl	µg/L	NS	-	--	--	-	--	0.000249 U	-	--	0.00025 U	-	--	--	--	--	--	--	
Total PCBs	µg/L	0.5	-	--	--	-	--	1.83	-	--	13.1	-	--	--	--	--	--	--	
Volatile Organic Compounds																			
1,1,1-Trichloroethane	µg/L	13627	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	
1,1,2,2-Tetrachloroethane	µg/L	NS	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	
1,1,2-Trichloroethane	µg/L	46.38	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	
1,1-Dichloroethane	µg/L	4000	5.0 U	5.0 U	1.0 U	110	150	41.3	11	9.2	4.1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.2 J	
1,1-Dichloroethene	µg/L	524.10	5.0 U	5.0 U	1.0 U	5.0 U	1.0 J	1.0 U	5.0 U	3.5 J	1.7	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,2,4-Trichlorobenzene	µg/L	70	5.0 U	5.0 U	1.0 U	79	81	126 J	7.5	5.0 U	1.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	NS	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U	
1,2-Dibromoethane (Ethylene dibromide)	µg/L	NS	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U	
1,2-Dichlorobenzene	µg/L	600	5.0 U	5.0 U	1.0 U	34	57	90.2 J	5.0 U	5.0 U	0.63 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,2-Dichloroethane	µg/L	5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	
1,2-Dichloropropane	µg/L	NS	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	
1,3-Dichlorobenzene	µg/L	600	5.0 U	5.0 U	1.0 U	83	110	141 J	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
1,4-Dichlorobenzene	µg/L	75	5.0 U	5.0 U	1.0 U	290	490	601	5.0 U	1.8 J	2.5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	NS	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	
2-Hexanone	µg/L	NS	10 U	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	NS	10 U	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	10 U	5.0 U	10 U	10 U	10 U	
Acetone	µg/L	45622	50 U	50 U	25.0 U	50 U	50 U	25.0 U	50 U	50 U	25.0 U	50 U	50 U	25.0 U	50 U	25.0 U	50 U	50 U	
Benzene	µg/L	8.7244	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	0.20 J	5.0 U	0.55 J	0.42 J	5.0 U	0.33 J	5.0 U	0.39 J	5.0 U	5.0 U	5.0 U	
Bromodichloromethane	µg/L	NS	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	
Bromoform	µg/L	NS	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0						

Table 3

Summary of Recent Groundwater Analytical Data
1610 Southland Circle
Atlanta, Georgia

Parameter	Units	Type 4 GW RRS	MW-6 6/4/2018	MW-7 2/19/2013	MW-7 5/24/2016	MW-7 6/5/2018	MW-8 2/19/2013	MW-8R 6/5/2018	MW-8D 6/5/2018	MW-9 2/19/2013	MW-9 5/24/2016	MW-9 6/6/2018	MW-10 2/19/2013	MW-10 5/24/2016	MW-10 6/6/2018	MW-11 2/19/2013	MW-11 5/24/2016	MW-11 6/5/2018	
									Duplicate			Duplicate							
PCB Aroclors																			
Aroclor-1016 (PCB-1016)	µg/L	3.7164	--	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	-	-	--	--	--	0.50 U	0.50 U	0.50 U	
Aroclor-1221 (PCB-1221)	µg/L	0.5	--	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	-	-	--	--	--	0.50 U	0.50 U	0.50 U	
Aroclor-1232 (PCB-1232)	µg/L	0.5	--	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	-	-	--	--	--	0.50 U	0.50 U	0.50 U	
Aroclor-1242 (PCB-1242)	µg/L	0.5	--	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	-	-	--	--	--	0.50 U	0.50 U	0.50 U	
Aroclor-1248 (PCB-1248)	µg/L	0.5	--	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	-	-	--	--	--	0.50 U	0.50 U	0.50 U	
Aroclor-1254 (PCB-1254)	µg/L	0.5	--	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	-	-	--	--	--	0.50 U	0.50 U	0.50 U	
Aroclor-1260 (PCB-1260)	µg/L	0.5	--	-	--	--	0.50 U	0.50 U	0.50 U	0.50 U	-	-	--	--	--	0.50 U	0.50 U	0.50 U	
PCB Homologs																			
Monochlorobiphenyls C12 H9 Cl	µg/L	NS	--	--	--	--	--	--	0.00367	--	--	--	--	--	--	--	--	--	--
Dichlorobiphenyls C12 H8 Cl2	µg/L	NS	--	--	--	--	--	--	0.0116	--	--	--	--	--	--	--	--	--	--
Trichlorobiphenyl	µg/L	NS	--	--	--	--	--	--	0.00861	--	--	--	--	--	--	--	--	--	--
Tetrachlorobiphenyl	µg/L	NS	--	--	--	--	--	--	0.0116	--	--	--	--	--	--	--	--	--	--
Pentachlorobiphenyl	µg/L	NS	--	--	--	--	--	--	0.00291	--	--	--	--	--	--	--	--	--	--
Hexachlorobiphenyls C12 H4 Cl6	µg/L	NS	--	--	--	--	--	--	0.000249 U	--	--	--	--	--	--	--	--	--	--
Heptachlorobiphenyls C12 H3 Cl7	µg/L	NS	--	--	--	--	--	--	0.000249 U	--	--	--	--	--	--	--	--	--	--
Octachlorobiphenyl	µg/L	NS	--	--	--	--	--	--	0.000249 U	--	--	--	--	--	--	--	--	--	--
Nonachlorobiphenyls C12 HCl9	µg/L	NS	--	--	--	--	--	--	0.000249 U	--	--	--	--	--	--	--	--	--	--
Decachlorobiphenyl	µg/L	NS	--	--	--	--	--	--	0.000249 U	--	--	--	--	--	--	--	--	--	--
Total PCBs	µg/L	0.5							0.035										
Volatile Organic Compounds																			
1,1,1-Trichloroethane	µg/L	13627	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	NS	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	46.38	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,1-Dichloroethane	µg/L	4000	0.61 J	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	24.2	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,1-Dichloroethene	µg/L	524.10	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	7.8	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	70	1.0 U	5.0 U	5.0 U	2.6	69	1.4	3.4	5.0 U	5.0 U	5.0 U	0.59 J	5.0 U	2.8 J	1.1	5.0 U	3.0 J	0.57 J
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	NS	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	2.0 U	2.0 U	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	NS	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	2.0 U	4.2	3.8	19.4	5.0 U	5.0 U	2.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	600	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	12	4.2	19.4	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
1,2-Dichloroethane	µg/L	5	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U
1,2-Dichloropropane	µg/L	NS	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	62	12.2	11.3	1.2	5.0 U	5.0 U	1.0 U	5.0 U	3.3 J	3.0	5.0 U
1,4-Dichlorobenzene	µg/L	75	1.0 U	5.0 U	5.0 U	3.0	330	69.3	64.6	3.7	5.0 U	5.0 U	1.0 U	19	14	11.3	5.0 U	5.0 U	1.1
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	NS	5.0 U	50 U	50 U	5.0 U	50 U	5.0 U	50 U	5.0 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Hexanone	µg/L	NS	5.0 U	10 U	10 U	5.0 U	10 U	5.0 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	NS	5.0 U	10 U	10 U	5.0 U	10 U	5.0 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U
Acetone	µg/L	45622	25.0 U	50 U	50 U	25.0 U	50 U	25.0 U	25.0 U	50 U	50 U	11 J	25.0 U	50 U	10.6 J	50 U	50 U	25.0 U	50 U
Benzene	µg/L	8.7244	1.0 U	5.0 U	5.0 U	1.0 U	6.2	6.9	8.1	0.60 J	5.0 U	5.0 U	1.0 U	5.0 U	4.2 J	1.1	5.0 U	5.0 U	1.0 U
Bromodichloromethane	µg/L	NS	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Bromoform	µg/L	NS	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	13.248	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	2											

Table 3

Summary of Recent Groundwater Analytical Data
1610 Southland Circle
Atlanta, Georgia

Parameter	Units	Type 4 GW RRS	MW-12 2/20/2013	MW-12 5/24/2016	MW-12 6/4/2018	MW-12D 2/20/2013	MW-12D 5/24/2016	MW-12D 6/4/2018	MW-13 2/19/2013	MW-13R 6/5/2018	RW-1 2/20/2013	RW-1 5/24/2016	RW-1 6/6/2018
PCB Aroclors													
Aroclor-1016 (PCB-1016)	µg/L	3.7164	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U
Aroclor-1221 (PCB-1221)	µg/L	0.5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U
Aroclor-1232 (PCB-1232)	µg/L	0.5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U
Aroclor-1242 (PCB-1242)	µg/L	0.5	4.8	11	2.2	2.0	7.2	1.4				9.6	15.1
Aroclor-1248 (PCB-1248)	µg/L	0.5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U
Aroclor-1254 (PCB-1254)	µg/L	0.5	0.50 U	0.50 U	0.50 U	0.70	0.50 U	0.50 U	0.50 U	0.50 U	8.6	0.50 U	4.3
Aroclor-1260 (PCB-1260)	µg/L	0.5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	3.6	0.50 U	1.0 U
PCB Homologs													
Monochlorobiphenyls C12 H9 Cl	µg/L	NS	--	--	0.779	--	--	0.059	--	--	--	--	0.618
Dichlorobiphenyls C12 H8 Cl2	µg/L	NS	--	--	2.7	--	--	0.292	--	--	--	--	5.77
Trichlorobiphenyl	µg/L	NS	--	--	1.36	--	--	0.433	--	--	--	--	6.81
Tetrachlorobiphenyl	µg/L	NS	--	--	0.466	--	--	0.362	--	--	--	--	6.64
Pentachlorobiphenyl	µg/L	NS	--	--	0.188	--	--	0.423	--	--	--	--	3.81
Hexachlorobiphenyls C12 H4 Cl6	µg/L	NS	--	--	0.111	--	--	1.03	--	--	--	--	0.947
Heptachlorobiphenyls C12 H3 Cl7	µg/L	NS	--	--	0.00322	--	--	0.367	--	--	--	--	0.147
Octachlorobiphenyl	µg/L	NS	--	--	0.000245 U	--	--	0.0152	--	--	--	--	0.00773
Nonachlorobiphenyls C12 HC19	µg/L	NS	--	--	0.000245 U	--	--	0.000261 U	--	--	--	--	0.000271 U
Decachlorobiphenyl	µg/L	NS	--	--	0.000245 U	--	--	0.000261 U	--	--	--	--	0.000271 U
Total PCBs	µg/L	0.5			5.61			2.99					24.7
Volatile Organic Compounds													
1,1,1-Trichloroethane	µg/L	13627	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	NS	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	46.38	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
1,1-Dichloroethane	µg/L	4000	8.0	7.5	6.2	5.0 U	7.9	1.0 U	5.0 U	1.0 U	5.0 U	2.0 J	1.9
1,1-Dichloroethene	µg/L	524.10	5.0 U	2.4 J	2.4	5.0 U	2.4 J	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	70	220	260	45.9	10	350	28.1	5.0 U	1.0 U	5.0 U	13	26.4
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	NS	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	NS	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	600	5.0 U	5.0 U	1.0 U	5.0 U	1.7 J	1.0 U	5.0 U	1.0 U	5.0 U	2.1 J	4.3
1,2-Dichloroethane	µg/L	5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
1,2-Dichloropropane	µg/L	NS	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	600	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	2.3 J	9.1
1,4-Dichlorobenzene	µg/L	75	5.0 U	1.2 J	1.3	5.0 U	2.3 J	1.0 U	19	0.75 J	7.1	16	21.7
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	NS	50 U	50 U	5.0 U	50 U	50 U	5.0 U	50 U	50 U	50 U	50 U	5.0 U
2-Hexanone	µg/L	NS	10 U	10 U	5.0 U	10 U	10 U	5.0 U	10 U	5.0 U	10 U	10 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	NS	10 U	10 U	5.0 U	10 U	10 U	5.0 U	10 U	5.0 U	10 U	10 U	6.0
Acetone	µg/L	45622	50 U	50 U	9.7 J	50 U	50 U	25.0 U	50 U	25.0 U	50 U	50 U	25.0 U
Benzene	µg/L	8.7244	5.0 U	0.30 J	0.29 J	5.0 U	5.0 U	1.0 U	16	1.0 U	5.0 U	5.0 U	1.0 U
Bromodichloromethane	µg/L	NS	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
Bromoform	µg/L	NS	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	13.248	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U	5.0 U	2.0 U	5.0 U	5.0 U	2.0 U
Carbon disulfide	µg/L	4000	5.0 U	5.0 U	10.0 U	5.0 U	5.0 U	10.0 U	5.0 U	10.0 U	5.0 U	5.0 U	10.0 U
Carbon tetrachloride	µg/L	NS	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	10.9
Chlorobenzene	µg/L	136.27	5.0 U	5.0 U	0.63 J	5.0 U	5.0 U	1.0 U	36	0.71 J	5.0 U	6.8	7.7
Chloroethane	µg/L	29200	10 U	10 U	1.0 U	10 U	10 U	1.0 U	10 U	1.0 U	10 U	10 U	1.0 U
Chloroform (Trichloromethane)	µg/L	100	5.0 U	0.72 J	1.0 U	5.0 U	0.66 J	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	262.8	10 U	10 U	1.0 U	10 U	10 U	1.0 U	10 U	1.0 U	10 U	10 U	1.0 U
cis-1,2-Dichloroethene	µg/L	204.4	25	17	18.0	5.0 U	16	1.6	5.0 U	3.2	5.0 U	4.8 J	5.8
cis-1,3-Dichloropropene	µg/L	NS	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
Cyclohexane	µg/L	17520	5.0 U	5.0 U	10.0 U	5.0 U	5.0 U	10.0 U	7.9	10.0 U	5.0 U	5.0 U	2.5 J
Dibromochloromethane	µg/L	340.67	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	NS	10 U	10 U	1.0 U	10 U	10 U	1.0 U	10 U	1.0 U	10 U	10 U	1.0 U
Ethylbenzene	µg/L	700	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	5.0 U	1.0 U
Isopropyl benzene	µg/L	1048.2	5.0 U	5.0 U	10.0 U	5.0 U	5.0 U	10.0 U	8.7	10.0 U	5.0 U	5.0 U	10.0 U</

Table 4

Soil Analytical Results Summary
1610 Southland Circle
Atlanta, Georgia

Sample Location			SB-1-2018 S-018876-052318-DJB-001 0 - 1 ft 5/23/2018	SB-1-2018 S-018876-052318-DJB-002 13 - 15 ft 5/23/2018	SB-2-2018 S-018876-052318-DJB-003 0 - 2 ft 5/23/2018	SB-2-2018 S-018876-052318-DJB-004 6 - 8 ft 5/23/2018	SB-3-2018 SO-018876-060718-SAG-406 0.5 - 1.0 ft 6/7/2018	SB-4-2018 SO-018876-060718-SAG-405 1.5 - 2.0 ft 6/7/2018	SB-5-2018 SO-018876-060718-SAG-404 1.5 - 2.0 ft 6/7/2018
Sample ID:									
Sample Interval:									
Sample Date:									
	Units	Type 4 Soil RRS							
Polychlorinated Biphenyls									
Aroclor-1016 (PCB-1016)	mg/kg	1.55	0.208 U	0.0513 U	0.201 U	0.0412 U	0.271 U	0.206 U	0.0454 U
Aroclor-1221 (PCB-1221)	mg/kg	1.55	0.422 U	0.104 U	0.409 U	0.0836 U	0.55 U	0.418 U	0.0922 U
Aroclor-1232 (PCB-1232)	mg/kg	1.55	0.208 U	0.0513 U	0.201 U	0.0412 U	0.271 U	0.206 U	0.0454 U
Aroclor-1242 (PCB-1242)	mg/kg	1.55	0.208 U	0.0513 U	0.201 U	0.0412 U	0.271 U	0.206 U	0.0454 U
Aroclor-1248 (PCB-1248)	mg/kg	1.55	0.208 U	0.0513 U	0.201 U	0.0412 U	0.271 U	0.206 U	0.0454 U
Aroclor-1254 (PCB-1254)	mg/kg	1.55	0.208 U	0.0513 U	0.201 U	0.0412 U	1.61	0.206 U	0.0454 U
Aroclor-1260 (PCB-1260)	mg/kg	1.55	0.208 U	0.0513 U	0.201 U	0.0412 U	0.812	0.206 U	0.0454 U
Monochlorobiphenyls C12 H9 Cl	mg/kg	NS	--	0.00005 U	0.00005 U	--	0.000331	--	0.0000268 U
Dichlorobiphenyls C12 H8 Cl2	mg/kg	NS	--	0.0000531	0.000101 U	--	0.00841	--	0.0000268 U
Trichlorobiphenyl	mg/kg	NS	--	0.00005 U	0.000113	--	0.187	--	0.00116
Tetrachlorobiphenyl	mg/kg	NS	--	0.00005 U	0.000193 U	--	3.23	--	0.0024
Pentachlorobiphenyl	mg/kg	NS	--	0.00005 U	0.000561	--	4.96	--	0.00215
Hexachlorobiphenyls C12 H4 Cl6	mg/kg	NS	--	0.00005 U	0.00115	--	4.44	--	0.00181
Heptachlorobiphenyls C12 H3 Cl7	mg/kg	NS	--	0.00005 U	0.000675	--	3.08	--	0.000714
Octachlorobiphenyl	mg/kg	NS	--	0.00005 U	0.000212	--	0.754	--	0.000081
Nonachlorobiphenyls C12 HCl9	mg/kg	NS	--	0.00005 U	0.00019	--	0.0423	--	0.0000268 U
Decachlorobiphenyl	mg/kg	NS	--	0.00005 U	0.000864 J	--	0.00405	--	0.0000268 U
Total PCBs	mg/kg	1.55		0.0000531	0.00004050		16.7		0.0083
Volatile Organic Compounds									
1,1,1-Trichloroethane	mg/kg	20	0.0097 U	0.0119 U	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	0.5	0.0097 U	0.0119 U	--	--	--	--	--
1,1-Dichloroethane	mg/kg	400	0.0097 U	0.0119 U	--	--	--	--	--
1,1-Dichloroethene	mg/kg	0.7	0.0097 U	0.0119 U	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	10.83	0.0097 U	0.0119 U	--	--	--	--	--
1,2,4-Trimethylbenzene	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	60	0.0097 U	0.0119 U	--	--	--	--	--
1,2-Dichloroethane	mg/kg	0.5	0.0097 U	0.0119 U	--	--	--	--	--
1,2-Dichloropropane	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
1,3,5-Trimethylbenzene	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	60	0.0097 U	0.0119 U	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	7.5	0.0097 U	0.0119 U	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	NS	0.0967 U	0.119 U	--	--	--	--	--
2-Hexanone	mg/kg	NS	0.0483 U	0.0595 U	--	--	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	NS	0.0483 U	0.0595 U	--	--	--	--	--
Acetone	mg/kg	400	0.0247 J	0.026 J	--	--	--	--	--
Benzene	mg/kg	0.5	0.0097 U	0.0119 U	--	--	--	--	--
Bromodichloromethane	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
Bromoform	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
Bromomethane (Methyl bromide)	mg/kg	1	0.0097 U	0.0119 U	--	--	--	--	--
Carbon disulfide	mg/kg	400	0.0011 J	0.0011 J	--	--	--	--	--
Carbon tetrachloride	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
Chlorobenzene	mg/kg	10	0.0097 U	0.0119 U	--	--	--	--	--
Chloroethane	mg/kg	8.2925	0.0097 U	0.0119 U	--	--	--	--	--
Chloroform (Trichloromethane)	mg/kg	4.8800	0.0097 U	0.0119 U	--	--	--	--	--
Chloromethane (Methyl chloride)	mg/kg	0.3	0.0097 U	0.0119 U	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	7	0.0097 U	0.0119 U	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
Cyclohexane	mg/kg	20	0.0097 U	0.0119 U	--	--	--	--	--

Table 4

Soil Analytical Results Summary
1610 Southland Circle
Atlanta, Georgia

Sample Location Sample ID: Sample Interval: Sample Date:	Units	Type 4 Soil RRS	SB-1-2018 S-018876-052318-DJB-001 0 - 1 ft 5/23/2018	SB-1-2018 S-018876-052318-DJB-002 13 - 15 ft 5/23/2018	SB-2-2018 S-018876-052318-DJB-003 0 - 2 ft 5/23/2018	SB-2-2018 S-018876-052318-DJB-004 6 - 8 ft 5/23/2018	SB-3-2018 SO-018876-060718-SAG-406 0.5 - 1.0 ft 6/7/2018	SB-4-2018 SO-018876-060718-SAG-405 1.5 - 2.0 ft 6/7/2018	SB-5-2018 SO-018876-060718-SAG-404 1.5 - 2.0 ft 6/7/2018
Dibromochloromethane	mg/kg	10	0.0097 U	0.0119 U	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	mg/kg	Ns	0.0097 U	0.0119 U	--	--	--	--	--
Ethylbenzene	mg/kg	70	0.0097 U	0.0119 U	--	--	--	--	--
Isopropyl benzene	mg/kg	21.88	0.0097 U	0.0119 U	--	--	--	--	--
Methyl acetate	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
Methyl cyclohexane	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
Methyl tert butyl ether (MTBE)	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
Methylene chloride	mg/kg	0.5	0.00074 J	0.00081 J	--	--	--	--	--
Styrene	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
Tetrachloroethene	mg/kg	0.5	0.0097 U	0.0119 U	--	--	--	--	--
Toluene	mg/kg	100	0.0097 U	0.0119 U	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	10	0.0097 U	0.0119 U	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	NS	0.0097 U	0.0119 U	--	--	--	--	--
Trichloroethene	mg/kg	0.5	0.0097 U	0.0119 U	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	mg/kg	200	0.0097 U	0.0119 U	--	--	--	--	--
Trifluorotrichloroethane (CFC-113)	mg/kg	NS	0.0483 U	0.0595 U	--	--	--	--	--
Vinyl chloride	mg/kg	0.2	0.0097 U	0.0119 U	--	--	--	--	--
Xylenes (total)	mg/kg	1000	0.0097 U	0.0119 U	--	--	--	--	--

Notes:

Type 4 RRS values were calculated and presented in the First VRP Progress Report submitted in January 2018

"NS" indicates no standard

"U"- Not detected at the associated reporting limit.

"J" - Estimated concentration.

For clarity, all Type 4 RRS exceedances are shown in **bold-face** type and yellow highlight.

Table 4

Soil Analytical Results Summary
1610 Southland Circle
Atlanta, Georgia

Sample Location Sample ID: Sample Interval: Sample Date:	Units	Type 4 Soil RRS	SB-6-2018 SO-018876-060718-SAG-402	SB-6-2018 SO-018876-060718-SAG-403	SB-7-2018 SO-018876-060718-SAG-401
			1.0 - 1.5 ft 6/7/2018	1.0 - 1.5 ft 6/7/2018	0 - 1.0 ft 6/7/2018
Polychlorinated Biphenyls					
Aroclor-1016 (PCB-1016)	mg/kg	1.55	0.0482 U	0.0479 U	0.357 U
Aroclor-1221 (PCB-1221)	mg/kg	1.55	0.0978 U	0.0973 U	0.725 U
Aroclor-1232 (PCB-1232)	mg/kg	1.55	0.0482 U	0.0479 U	0.357 U
Aroclor-1242 (PCB-1242)	mg/kg	1.55	0.0482 U	0.0479 U	0.357 U
Aroclor-1248 (PCB-1248)	mg/kg	1.55	0.0482 U	0.0479 U	0.357 U
Aroclor-1254 (PCB-1254)	mg/kg	1.55	0.149	0.112	1
Aroclor-1260 (PCB-1260)	mg/kg	1.55	0.0415 J	0.0413 J	0.562
Monochlorobiphenyls C12 H9 Cl	mg/kg	NS	--	--	0.000175
Dichlorobiphenyls C12 H8 Cl2	mg/kg	NS	--	--	0.0107
Trichlorobiphenyl	mg/kg	NS	--	--	0.0585
Tetrachlorobiphenyl	mg/kg	NS	--	--	1.1
Pentachlorobiphenyl	mg/kg	NS	--	--	4.35
Hexachlorobiphenyls C12 H4 Cl6	mg/kg	NS	--	--	3.98
Heptachlorobiphenyls C12 H3 Cl7	mg/kg	NS	--	--	2.06
Octachlorobiphenyl	mg/kg	NS	--	--	0.461
Nonachlorobiphenyls C12 HCl9	mg/kg	NS	--	--	0.0279
Decachlorobiphenyl	mg/kg	NS	--	--	0.00206
Total PCBs	mg/kg	1.55			12
Volatile Organic Compounds					
1,1,1-Trichloroethane	mg/kg	20	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	NS	--	--	--
1,1,2-Trichloroethane	mg/kg	0.5	--	--	--
1,1-Dichloroethane	mg/kg	400	--	--	--
1,1-Dichloroethene	mg/kg	0.7	--	--	--
1,2,4-Trichlorobenzene	mg/kg	10.83	--	--	--
1,2,4-Trimethylbenzene	mg/kg	NS	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NS	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	NS	--	--	--
1,2-Dichlorobenzene	mg/kg	60	--	--	--
1,2-Dichloroethane	mg/kg	0.5	--	--	--
1,2-Dichloropropane	mg/kg	NS	--	--	--
1,3,5-Trimethylbenzene	mg/kg	NS	--	--	--
1,3-Dichlorobenzene	mg/kg	60	--	--	--
1,4-Dichlorobenzene	mg/kg	7.5	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	NS	--	--	--
2-Hexanone	mg/kg	NS	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	NS	--	--	--
Acetone	mg/kg	400	--	--	--
Benzene	mg/kg	0.5	--	--	--
Bromodichloromethane	mg/kg	NS	--	--	--
Bromoform	mg/kg	NS	--	--	--
Bromomethane (Methyl bromide)	mg/kg	1	--	--	--
Carbon disulfide	mg/kg	400	--	--	--
Carbon tetrachloride	mg/kg	NS	--	--	--
Chlorobenzene	mg/kg	10	--	--	--
Chloroethane	mg/kg	8.2925	--	--	--
Chloroform (Trichloromethane)	mg/kg	4.8800	--	--	--
Chloromethane (Methyl chloride)	mg/kg	0.3	--	--	--
cis-1,2-Dichloroethene	mg/kg	7	--	--	--
cis-1,3-Dichloropropene	mg/kg	NS	--	--	--
Cyclohexane	mg/kg	20	--	--	--

Table 4

Soil Analytical Results Summary
1610 Southland Circle
Atlanta, Georgia

Sample Location Sample ID: Sample Interval: Sample Date:	Units	Type 4 Soil RRS	SB-6-2018 SO-018876-060718-SAG-402	SB-6-2018 SO-018876-060718-SAG-403	SB-7-2018 SO-018876-060718-SAG-401
			1.0 - 1.5 ft 6/7/2018	1.0 - 1.5 ft 6/7/2018	DUP 6/7/2018
Dibromochloromethane	mg/kg	10	--	--	--
Dichlorodifluoromethane (CFC-12)	mg/kg	Ns	--	--	--
Ethylbenzene	mg/kg	70	--	--	--
Isopropyl benzene	mg/kg	21.88	--	--	--
Methyl acetate	mg/kg	NS	--	--	--
Methyl cyclohexane	mg/kg	NS	--	--	--
Methyl tert butyl ether (MTBE)	mg/kg	NS	--	--	--
Methylene chloride	mg/kg	0.5	--	--	--
Styrene	mg/kg	NS	--	--	--
Tetrachloroethene	mg/kg	0.5	--	--	--
Toluene	mg/kg	100	--	--	--
trans-1,2-Dichloroethene	mg/kg	10	--	--	--
trans-1,3-Dichloropropene	mg/kg	NS	--	--	--
Trichloroethene	mg/kg	0.5	--	--	--
Trichlorofluoromethane (CFC-11)	mg/kg	200	--	--	--
Trifluorotrichloroethane (CFC-113)	mg/kg	NS	--	--	--
Vinyl chloride	mg/kg	0.2	--	--	--
Xylenes (total)	mg/kg	1000	--	--	--

Notes:

Type 4 RRS values were calculated and presented in the First VRP Progress F

"NS" indicates no standard

"U"- Not detected at the associated reporting limit.

"J" - Estimated concentration.

For clarity, all Type 4 RRS exceedances are shown in **bold-face** type and yellow

Table 5

Summary of Recent Surface Water Analytical Data
1610 Southland Circle
Atlanta, Georgia

Parameter	Units	Surface Water GISWQS	Upstream (Outlet of Storm Sewer)										Downstream (Near Entrance to Culvert Under Southland Circle)											
			11/14/00	06/06/03	04/01/04	02/19/09	08/12/10	02/21/12	08/27/12	02/18/13	5/25/2016	6/7/2018	06/06/03	07/07/04	02/19/09	08/12/10	02/21/12	08/27/12	02/18/13	5/25/2016 (Dup)	6/7/2018			
PCB Aroclors																								
Aroclor-1016	µg/L	0.000064	1.0 U	1.0 U	5.0 U	0.5 U	0.50 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.19 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		
Aroclor-1221	µg/L	0.000064	1.0 U	1.0 U	5.0 U	0.5 U	0.50 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.19 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		
Aroclor-1232	µg/L	0.000064	1.0 U	1.0 U	5.0 U	0.5 U	0.50 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.19 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		
Aroclor-1242	µg/L	0.000064	1.0 U	1.0 U	5.0 U	0.5 U	0.50 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.19 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		
Aroclor-1248	µg/L	0.000064	1.0 U	1.0 U	5.0 U	0.5 U	0.50 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.19 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		
Aroclor-1254	µg/L	0.000064	1.0 U	1.0 U	5.0 U	0.5 U	0.50 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.19 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		
Aroclor-1260	µg/L	0.000064	1.0 U	1.0 U	5.0 U	0.5 U	0.50 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	1.0 U	0.088	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		
PCB Homologs																								
Monochlorobiphenyls C12 H9 Cl	µg/L	NS	--	--	--	--	--	--	--	--	--	--	0.000254 U	--	--	--	--	--	--	--	--	--	0.000244 U	
Dichlorobiphenyls C12 H8 Cl2	µg/L	NS	--	--	--	--	--	--	--	--	--	--	0.000365 U	--	--	--	--	--	--	--	--	--	0.00998	
Trichlorobiphenyl	µg/L	NS	--	--	--	--	--	--	--	--	--	--	0.000594	--	--	--	--	--	--	--	--	--	0.0587	
Tetrachlorobiphenyl	µg/L	NS	--	--	--	--	--	--	--	--	--	--	0.0146	--	--	--	--	--	--	--	--	--	0.21	
Pentachlorobiphenyl	µg/L	NS	--	--	--	--	--	--	--	--	--	--	0.0998	--	--	--	--	--	--	--	--	--	0.218	
Hexachlorobiphenyls C12 H4 Cl6	µg/L	NS	--	--	--	--	--	--	--	--	--	--	0.0761	--	--	--	--	--	--	--	--	--	0.154	
Heptachlorobiphenyls C12 H3 Cl7	µg/L	NS	--	--	--	--	--	--	--	--	--	--	0.019	--	--	--	--	--	--	--	--	--	0.0786	
Octachlorobiphenyl	µg/L	NS	--	--	--	--	--	--	--	--	--	--	0.00265	--	--	--	--	--	--	--	--	--	0.0181	
Nonachlorobiphenyls C12 HCl9	µg/L	NS	--	--	--	--	--	--	--	--	--	--	0.000254 U	--	--	--	--	--	--	--	--	--	0.00119	
Decachlorobiphenyl	µg/L	NS	--	--	--	--	--	--	--	--	--	--	0.000254 U	--	--	--	--	--	--	--	--	--	0.000244 U	
Total PCBs	µg/L	0.000064											0.213										0.748	
Volatile Organic Compounds																								
1,1-Dichloroethane	µg/L	NS	8.6	--	12	5.0 U	6.6	5.0 U	5.0 U	5.0 U	1.1 J	0.51 J	--	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	
1,1-Dichloroethylene	µg/L	7100	5.0 U	--	5.0 U	5.0 U	2.4 J	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	--	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	
1,2,3-Trichlorobenzene	µg/L	NS	5.0 U	--	5.0 U	5.0 U	--	--	--	--	--	--	--	0.25 J	5.0 U	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	70	5.0 U	--	5.0 U	1.0 U	--	0.25 J	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U											
Acetone	µg/L	NS	20 UJ	--	20 U	50 U	15 J	50 U	50 U	50 U	50 U	25.0 U	--	2.6 J	50 U	50 U	50 U	50 U	25.0 U					
Bromodichloromethane	µg/L	NS	5.0 U	--	5.0 U	1.0 U	--	0.54 J	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U											
Chloroform	µg/L	470	5.0 U	--	5.0 U	1.0 U	--	3.1	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U											
cis-1,2-Dichloroethylene	µg/L	NS	5.7	--	8.4	5.0 U	13	5.9	6.4	5.8	4.2 J	2.2	--	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	
Tetrachloroethylene	µg/L	3.3	8.1	--	10	16	43	30	40	41	20	6.7	--	0.29 J	5.0 U	5.0 U	5.0 U	5.0 U	6.1	2.5 J	1.0 U			
Toluene	µg/L	6,000	5.0 U	--	5.0 U	1.0 U	--	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U							
trans-1,2-Dichloroethylene	µg/L	10,000	5.0 U	--	5.0 U	1.0 U	--	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U							
Trichloroethylene	µg/L	30	5.0 U	--	5.0 U	5.0 U	6.4	5.0 U	5.0 U	5.0 U	2.5 J	0.81 J	--	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	
Trichlorofluoromethane	µg/L	NS	--	--	14	14	19	13	14	14	7.1	2.3	--	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	
Vinyl chloride	µg/L	2.4	10 U	--	2.0 U	1.0 U	--	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U							
Petroleum Hydrocarbons																								

Table 6

Sediment Analytical Results Summary
1610 Southland Circle
Atlanta, Georgia

Sample ID:			SED-018876-060718-SAG-301	SED-018876-060718-SAG-302
Sample Interval:			0 - 6 inches	0 - 6 inches
Sample Date:			6/7/2018	6/7/2018
Sample Location:			SD-1-2018 (Upstream)	SD-2-2018 (Downstream)
	Units	Type 4 Soil RRS		
PCB Aroclors				
Aroclor-1016 (PCB-1016)	mg/kg	1.55	0.216 U	0.228 U
Aroclor-1221 (PCB-1221)	mg/kg	1.55	0.438 U	0.462 U
Aroclor-1232 (PCB-1232)	mg/kg	1.55	0.216 U	0.228 U
Aroclor-1242 (PCB-1242)	mg/kg	1.55	0.216 U	0.332
Aroclor-1248 (PCB-1248)	mg/kg	1.55	0.216 U	0.228 U
Aroclor-1254 (PCB-1254)	mg/kg	1.55	0.216 U	0.642
Aroclor-1260 (PCB-1260)	mg/kg	1.55	0.216 U	0.388
PCB Homologs				
Monochlorobiphenyls C12 H9 Cl	mg/kg	NS	0.0000282 U	0.000525
Dichlorobiphenyls C12 H8 Cl2	mg/kg	NS	0.0000282 U	0.0444
Trichlorobiphenyl	mg/kg	NS	0.000276	0.353
Tetrachlorobiphenyl	mg/kg	NS	0.00752	2.28
Pentachlorobiphenyl	mg/kg	NS	0.0774	2.63
Hexachlorobiphenyls C12 H4 Cl6	mg/kg	NS	0.0592	1.77
Heptachlorobiphenyls C12 H3 Cl7	mg/kg	NS	0.0122	0.94
Octachlorobiphenyl	mg/kg	NS	0.0019	0.221
Nonachlorobiphenyls C12 HCl9	mg/kg	NS	0.000409	0.0125
Decachlorobiphenyl	mg/kg	NS	0.000873	0.000975
Total PCBs	mg/kg	1.55	0.16	8.25
Volatile Organic Compounds				
1,1,1-Trichloroethane	mg/kg	20	0.0096 U	0.0104 U
1,1,2,2-Tetrachloroethane	mg/kg	NS	0.0096 U	0.0104 U
1,1,2-Trichloroethane	mg/kg	0.5	0.0096 U	0.0104 U
1,1-Dichloroethane	mg/kg	400	0.0096 U	0.0104 U
1,1-Dichloroethene	mg/kg	0.7	0.0096 U	0.0104 U
1,2,4-Trichlorobenzene	mg/kg	10.83	0.0096 U	0.0104 U
1,2,4-Trimethylbenzene	mg/kg	NS	0.0096 U	0.0104 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NS	0.0096 U	0.0104 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	NS	0.0096 U	0.0104 U
1,2-Dichlorobenzene	mg/kg	60	0.0096 U	0.0104 U
1,2-Dichloroethane	mg/kg	0.5	0.0096 U	0.0104 U
1,2-Dichloropropane	mg/kg	NS	0.0096 U	0.0104 U
1,3,5-Trimethylbenzene	mg/kg	NS	0.0096 U	0.0104 U
1,3-Dichlorobenzene	mg/kg	60	0.0096 U	0.0104 U
1,4-Dichlorobenzene	mg/kg	7.5	0.0096 U	0.0104 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	NS	0.0959 U	0.0082 J
2-Hexanone	mg/kg	NS	0.048 U	0.0521 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	NS	0.048 U	0.0521 U
Acetone	mg/kg	400	0.0994 J	0.0966 J
Benzene	mg/kg	0.5	0.0096 U	0.0104 U
Bromodichloromethane	mg/kg	NS	0.0096 U	0.0104 U
Bromoform	mg/kg	NS	0.0096 U	0.0104 U
Bromomethane (Methyl bromide)	mg/kg	1	0.0096 U	0.0104 U
Carbon disulfide	mg/kg	400	0.0096 U	0.0104 U
Carbon tetrachloride	mg/kg	NS	0.0096 U	0.0104 U
Chlorobenzene	mg/kg	10	0.0096 U	0.0104 U
Chloroethane	mg/kg	8.2925	0.0096 U	0.0104 U
Chloroform (Trichloromethane)	mg/kg	4.8800	0.0096 U	0.0104 U
Chloromethane (Methyl chloride)	mg/kg	0.3	0.0096 U	0.0104 U
cis-1,2-Dichloroethene	mg/kg	7	0.0096 U	0.0104 U
cis-1,3-Dichloropropene	mg/kg	NS	0.0096 U	0.0104 U
Cyclohexane	mg/kg	20	0.0096 U	0.0104 U
Dibromochloromethane	mg/kg	10	0.0096 U	0.0104 U
Dichlorodifluoromethane (CFC-12)	mg/kg	NS	0.0096 U	0.0104 U
Ethylbenzene	mg/kg	70	0.0096 U	0.0104 U
Isopropyl benzene	mg/kg	21.88	0.0096 U	0.0104 U
Methyl acetate	mg/kg	NS	0.0034 J	0.0057 J
Methyl cyclohexane	mg/kg	NS	0.0096 U	0.0104 U
Methyl tert butyl ether (MTBE)	mg/kg	NS	0.0096 U	0.0104 U
Methylene chloride	mg/kg	0.5	0.0192 U	0.0209 U
Styrene	mg/kg	NS	0.0096 U	0.0104 U
Tetrachloroethene	mg/kg	0.5	0.00075 J	0.0104 U
Toluene	mg/kg	100	0.0096 U	0.0104 U
trans-1,2-Dichloroethene	mg/kg	10	0.0096 U	0.0104 U
trans-1,3-Dichloropropene	mg/kg	NS	0.0096 U	0.0104 U
Trichloroethene	mg/kg	0.5	0.0096 U	0.0104 U
Trichlorofluoromethane (CFC-11)	mg/kg	200	0.0096 U	0.0104 U
Trifluorotrichloroethane (CFC-113)	mg/kg	NS	0.048 U	0.0521 U
Vinyl chloride	mg/kg	0.2	0.0096 U	0.0104 U
Xylenes (total)	mg/kg	1000	0.0096 U	0.0104 U

Notes:

Type 4 RRS values were calculated and presented in the First VRP Progress Report submitted in January 2018

NS indicates no standard

"U" - Not detected at the associated reporting limit.

"J" - Estimated concentrations above the method detection limits

Appendices

Appendix A

Stratigraphic and Instrumentation Logs and Well Development Forms



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTHLAND CIRCLE
PROJECT NUMBER: 18876
CLIENT: CBS
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-13R
DATE COMPLETED: 23 May 2018
DRILLING METHOD: DIRECT PUSH/HSA 4-1/4"
FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft	MONITORING WELL	SAMPLE			
				NUMBER	INTERVAL	REC (%)	
2	ASPHALT/GRAVEL (FILL) HAN AUGER, large boulders, coarse gravel, gray	1.00	CONCRETE CEMENT/BENTONITE GROUT 2" PVC WELL CASING 6" BOREHOLE	1HA			
6	FILL MATERIAL, SM-SILTY SAND, coarse gravel, loose	5.00		2DPT		25	
10	ML/CL-SILT/CLAY (FILL)	10.00		3DPT		35	
16	SM-SILT/SAND, brown/gray, moist	15.00	BENTONITE CHIPS	4DPT		40	
20	CL-CLAY	20.00	2" PVC WELL SCREEN	5DPT		90	
26	SAPROLITE, gray, saturated	25.00	SAND PACK	6DPT		90	
32	END OF BOREHOLE @ 31.0ft BGS	31.00		7DPT		4.7	
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE				WELL DETAILS Screened interval: 20.50 to 30.50ft BGS Length: 10ft Diameter: 2in Slot Size: 0.010			



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTHLAND CIRCLE
PROJECT NUMBER: 18876
CLIENT: CBS
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-13R
DATE COMPLETED: 23 May 2018
DRILLING METHOD: DIRECT PUSH/HSA 4-1/4"
FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft	MONITORING WELL	SAMPLE		
				NUMBER	INTERVAL	REC (%)
36			Material: PVC Seal: 14.50 to 17.50ft BGS			
38			Material: BENTONITE CHIPS			
40			Sand Pack: 17.50 to 31.00ft BGS			
42			Material: SAND			
44						
46						
48						
50						
52						
54						
56						
58						
60						
62						
64						
66						
68						
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE						

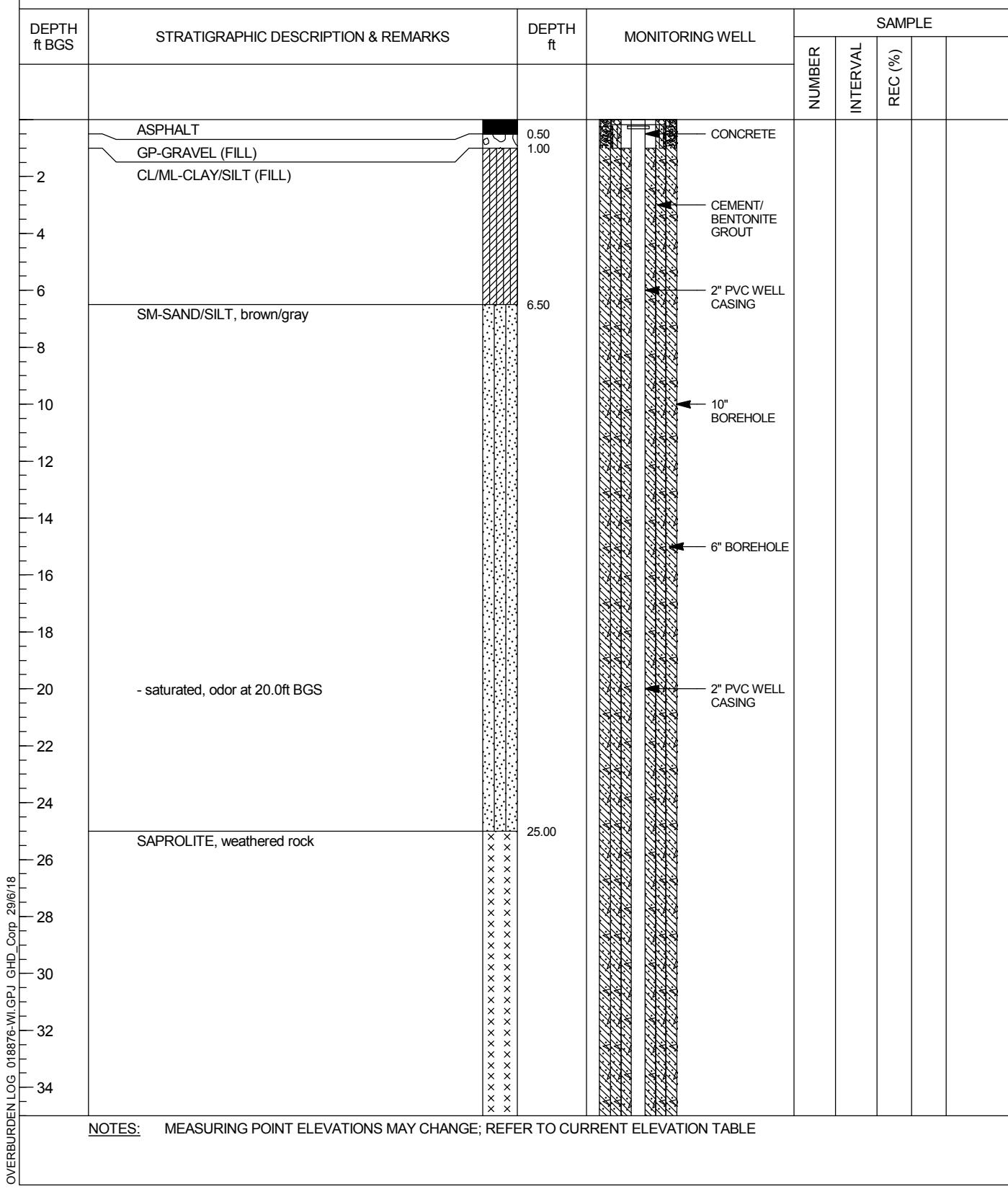


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 3

PROJECT NAME: SOUTHLAND CIRCLE
PROJECT NUMBER: 18876
CLIENT: CBS
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-8D
DATE COMPLETED: 23 May 2018
DRILLING METHOD: DIRECT PUSH/HSA/AIR ROTARY
FIELD PERSONNEL: D. BRYTOWSKI





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 3

PROJECT NAME: SOUTHLAND CIRCLE
PROJECT NUMBER: 18876
CLIENT: CBS
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-8D
DATE COMPLETED: 23 May 2018
DRILLING METHOD: DIRECT PUSH/HSA/AIR ROTARY
FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft	MONITORING WELL	SAMPLE		
				NUMBER	INTERVAL	REC (%)
36						
38						
40						
42						
44	- auger refusal at 45.0ft BGS					
46						
48						
50						
52						
54						
56						
58						
60						
62						
64						
66						
68						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 018876-WI GPJ GHD Corp 29/6/18

The diagram illustrates the cross-section of the monitoring well borehole. It shows two vertical columns representing the borehole and casing. The outer column is labeled '4" BOREHOLE'. Inside it, a inner column is labeled '4" CASING'. A horizontal 'BENTONITE CHIPS' layer is shown between the borehole and the casing. Below the chips, a '2" PVC WELL SCREEN' is embedded in a 'SAND PACK'. Arrows point from the labels to their respective positions in the borehole diagram.



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 3 of 3

PROJECT NAME: SOUTHLAND CIRCLE
PROJECT NUMBER: 18876
CLIENT: CBS
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-8D
DATE COMPLETED: 23 May 2018
DRILLING METHOD: DIRECT PUSH/HSA/AIR ROTARY
FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft	MONITORING WELL	SAMPLE		
				NUMBER	INTERVAL	REC (%)
72	END OF BOREHOLE @ 72.0ft BGS	72.00				
74						
76						
78						
80						
82						
84						
86						
88						
90						
92						
94						
96						
98						
100						
102						
104						
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE						



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: SOUTHLAND CIRCLE
PROJECT NUMBER: 18876
CLIENT: CBS
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-8R
DATE COMPLETED: 23 May 2018
DRILLING METHOD: HSA 4-1/4"
FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft	MONITORING WELL	SAMPLE		
				NUMBER	INTERVAL	REC (%)
2	ASPHALT GP-GRAVEL (FILL) CL/ML-CLAY/SILT (FILL)	0.50 1.00	CONCRETE			
4			CEMENT/BENTONITE GROUT			
6		6.50	2" PVC WELL CASING			
8	SM-SAND/SILT, brown/gray		6" BOREHOLE			
10			BENTONITE CHIPS			
12			2" PVC WELL SCREEN			
14			SAND PACK			
16						
18						
20	- saturated, odor at 20.0ft BGS					
22						
24						
26	SAPROLITE, weathered	25.00				
28						
30						
32	END OF BOREHOLE @ 31.0ft BGS	31.00				
34						
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE						



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: SOUTHLAND CIRCLE
PROJECT NUMBER: 18876
CLIENT: CBS
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: MW-8R
DATE COMPLETED: 23 May 2018
DRILLING METHOD: HSA 4-1/4"
FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft	MONITORING WELL	SAMPLE		
				NUMBER	INTERVAL	REC (%)
36			Material: PVC Seal: 15.50 to 18.00ft BGS			
38			Material: BENTONITE CHIPS			
40			Sand Pack: 18.00 to 31.00ft BGS			
42			Material: SAND			
44						
46						
48						
50						
52						
54						
56						
58						
60						
62						
64						
66						
68						
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE						



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTHLAND CIRCLE
PROJECT NUMBER: 18876
CLIENT: CBS
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: SB-1-2018
DATE COMPLETED: 23 May 2018
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. BRYTOWSKI

DEN LOG 018876-WL.GPJ GHD_Corp 18/6/18

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft	BOREHOLE	SAMPLE			
				NUMBER	INTERVAL	REC (%)	PID (ppm)
2	ASPHALT	0.50		0.5-1 -001		30	0.0
4	SM-SILTY SAND (FILL)						
6	NO RECOVERY	5.00					0.0
8							
10	SM-SILTY SAND (FILL)	10.00					0.0
12							
14							
16	NO RECOVERY	15.00		13-15 -002		0	
18							
20	SAPROLITE, saturated	20.00					0.0
22							
24							
26	END OF BOREHOLE @ 25.0ft BGS	25.00					
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: SOUTHLAND CIRCLE
PROJECT NUMBER: 18876
CLIENT: CBS
LOCATION: ATLANTA, GEORGIA

HOLE DESIGNATION: SB-2-2018
DATE COMPLETED: 23 May 2018
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. BRYTOWSKI

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft	BOREHOLE	SAMPLE		
				NUMBER	INTERVAL	REC (%)
2	SM-SILTY SAND (FILL)			0-2		0
4				1HA		25
6	ML-SILT, alluvium, gray, moist	5.00		6'- 2DPT		80
8	- saturated at 9.0ft BGS			3DPT		100
10						
12						
14						
16	END OF BOREHOLE @ 15.0ft BGS	15.00				
18						
20						
22						
24						
26						
28						
30						
32						
34						
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE						
CHEMICAL ANALYSIS						

Well Development, Purging, and Sampling Form

(Form SP-06)

Page 1 of 2

PROJECT #: 18976
WELL ID: MW-8RPROJECT NAME: Southland Circle
FIELD PERSONNEL: David BrytowskiDATE: 5/25/18

WELL DIAMETER 2 in
 WELL DEPTH 30.7 m/ft
 STATIC DEPTH TO WATER 18.98 m/ft
 WATER COLUMN HEIGHT 11.7 m/ft
 CASING VOLUME 1.9 L/gal
 MEASURING REFERENCE POINT TDC (N)

Well Diameter (in)	Casing Volume	
	(L/m)	(US gallon/foot)
1.5	1.14	0.09
<u>2</u>	2.03	<u>0.16</u>
4	8.11	0.65
6	18.24	1.47

PURGING AND SAMPLING EQUIPMENT DevelopmentDEDICATED PURGING EQUIPMENT? YES NO DEDICATED SAMPLING EQUIPMENT? YES NO NA

PURGING DEVICE	<input checked="" type="checkbox"/> <u>D+B</u>	A - INERTIAL PUMP (WATERRA®)	<input checked="" type="checkbox"/> <u>B</u>	B - BAILER	C - PERISTALTIC PUMP	<input checked="" type="checkbox"/> <u>D</u>	SUBMERSIBLE PUMP	X - <u>surged well with</u> <u>bailler first</u>
SAMPLING DEVICE	<input checked="" type="checkbox"/> <u>C</u>	E - BLADDER PUMP	<input checked="" type="checkbox"/> <u>F</u>	F - PURGE PUMP	G - DIPPER BOTTLE	<input checked="" type="checkbox"/> <u>H</u>	GAS LIFT PUMP	OTHER (SPECIFY)
PURGING MATERIAL	<input checked="" type="checkbox"/> <u>E</u>	A - POLYETHYLENE	<input checked="" type="checkbox"/> <u>B</u>	TEFLON	C - PVC	<input checked="" type="checkbox"/> <u>D</u>	POLYPROPYLENE	X -
SAMPLING MATERIAL	<input checked="" type="checkbox"/> <u>F</u>	E - STAINLESS STEEL						OTHER (SPECIFY)
TUBING PURGING	<input checked="" type="checkbox"/> <u>A</u>	A - POLYETHYLENE	<input checked="" type="checkbox"/> <u>B</u>	TEFLON	C - TYGON	<input checked="" type="checkbox"/> <u>D</u>	POLYPROPYLENE	X -
TUBING SAMPLING	<input checked="" type="checkbox"/> <u>C</u>	E - SILICONE	<input checked="" type="checkbox"/> <u>F</u>	ROPE	G - COMBINATION TEFILON/POLYPROPYLENE			OTHER (SPECIFY)
FILTERING DEVICES	<input checked="" type="checkbox"/> <u>D</u>	A - IN-LINE DISPOSABLE	<input checked="" type="checkbox"/> <u>B</u>	PRESSURE	C - VACUUM		PORE SIZE :	

DEVELOPMENT/PURGING FIELD MEASUREMENTS ARE RECORDED ON PAGE 2.

SAMPLING INFORMATION

SAMPLE DATE/TIME: ✓
 WEATHER CONDITIONS AT TIME OF SAMPLING: ✓
 SAMPLE ID: ✓
 SAMPLE WAS FILTERED FOR (ANALYSIS): ✓
 SAMPLE APPEARANCE: ✓

Well Development, Purging, and Sampling Form

(Form SP-06)

Page 2 of 2

PROJECT #: 18876
WELL ID: MN-BRPROJECT NAME: Southend CircleDATE: 5/25/18FIELD PERSONNEL: David Brytanski

FIELD MEASUREMENTS

DATE	TIME Units: Stabilization:	VOLUME (L) (US gal)	TEMPERATURE (°C) (°F) ±10%	CONDUCTIVITY (mS/cm) (μ S/cm) ±10%	pH	TURBIDITY (NTU) <5	COLOUR	ODOUR	COMMENTS
5/25/18	15:20	3	25.34	380	6.73	MAX	Brown	None	mud
5/25/18	15:35	10	25.40	269	6.72	289	↑		
5/25/18	15:45	15	25.35	279	6.70	193	↓		
5/25/18		20	25.10	301	6.81	30.4	brownish	↓	

Well Development, Purging, and Sampling Form

(Form SP-06)

Page 1 of 2

PROJECT #: 19876WELL ID: MW-81PROJECT NAME: Southland CircleFIELD PERSONNEL: David BrytowskiDATE: 5/24/18WELL DIAMETER 2 inWELL DEPTH 69.2 m/ftSTATIC DEPTH TO WATER 19.92 m/ftWATER COLUMN HEIGHT 50.3 m/ftCASING VOLUME 8.0 L/galMEASURING REFERENCE POINT TOC (N)

Well Diameter (in)	Casing Volume	
	(L/m)	(US gallon/foot)
1.5	1.14	0.09
2	2.03	0.16
4	8.11	0.65
6	18.24	1.47

PURGING AND SAMPLING EQUIPMENT

DEDICATED PURGING EQUIPMENT? YES Development NOPURGING DEVICE D

A - INERTIAL PUMP (WATERRA®)

B - BAILER

SAMPLING DEVICE

E - BLADDER PUMP

F - PURGE PUMP

C - PERISTALTIC PUMP

G - DIPPER BOTTLE

D - SUBMERSIBLE PUMP

H - GAS LIFT PUMP

X -

OTHER (SPECIFY)

PURGING MATERIAL

A - POLYETHYLENE

B - TEFLO

C - PVC

D - POLYPROPYLENE

X -

SAMPLING MATERIAL

E - STAINLESS STEEL

OTHER (SPECIFY)

TUBING PURGING A

A - POLYETHYLENE

C - TYGON

D - POLYPROPYLENE

X -

TUBING SAMPLING

E - SILICONE

F - ROPE

G - COMBINATION TEFLO/POLYPROPYLENE

OTHER (SPECIFY)

FILTERING DEVICES None

A - IN-LINE DISPOSABLE

B - PRESSURE

C - VACUUM

PORE SIZE :

DEVELOPMENT/PURGING FIELD MEASUREMENTS ARE RECORDED ON PAGE 2.

SAMPLING INFORMATION

SAMPLE DATE/TIME: NAWEATHER CONDITIONS AT TIME OF SAMPLING: R

SAMPLE ID: _____

SAMPLE WAS FILTERED FOR (ANALYSIS): _____

SAMPLE APPEARANCE: _____

Well Development, Purging, and Sampling Form

(Form SP-06)

Page 2 of 2

PROJECT #: 19876WELL ID: Mw-8DPROJECT NAME: Southland CircleFIELD PERSONNEL: David BrytowskyDATE: 5/24/14

FIELD MEASUREMENTS

DATE	TIME Units: Stabilization:	VOLUME (L) (US gal)	TEMPERATURE (°C) (°F) ±10%	CONDUCTIVITY (mS/cm) (μS/cm) ±10%	pH -	TURBIDITY (NTU) <5	COLOUR -	ODOUR -	COMMENTS -
5/24/14	13:05	20	27.13	.424	6.71	750	brownish	None	
5/24/14	13:45	40	25.17	.291	6.63	37.5	↓	↓	
5/24/14	14:25	60	25.05	.215	6.66	51.5	slight brownish	↓	
5/24/14	15:10	80	24.34	.222	6.57	30.8			

Well Development, Purging, and Sampling Form

(Form SP-06)

Page 1 of 2

PROJECT #: 18876PROJECT NAME: Southland CircleDATE: 5/25/19WELL ID: Mw-13R

FIELD PERSONNEL: _____

WELL DIAMETER 2 inWELL DEPTH 30.5 m/ftSTATIC DEPTH TO WATER 15.38 m/ftWATER COLUMN HEIGHT 15.1 m/ftCASING VOLUME 2.4 L/galMEASURING REFERENCE POINT TOC (N)

Well Diameter (in)	Casing Volume	
	(L/m)	(US gallon/foot)
1.5	1.14	0.09
2	2.03	0.16
4	8.11	0.65
6	18.24	1.47

PURGING AND SAMPLING EQUIPMENT

Development

DEDICATED PURGING EQUIPMENT? YES NO

DEDICATED SAMPLING EQUIPMENT? YES NO

PURGING DEVICE D+D

A - INERTIAL PUMP (WATERRA®)

B - BAILER

C - PERISTALTIC PUMP

D - SUBMERSIBLE PUMP

X - surged using scSAMPLING DEVICE

E - BLADDER PUMP

F - PURGE PUMP

G - DIPPER BOTTLE

H - GAS LIFT PUMP

X - baile first

OTHER (SPECIFY) _____

PURGING MATERIAL E

A - POLYETHYLENE

B - TEFLON

C - PVC

D - POLYPROPYLENE

X -

SAMPLING MATERIAL

E - STAINLESS STEEL

OTHER (SPECIFY) _____

TUBING PURGING A

A - POLYETHYLENE

B - TEFLON

C - TYGON

D - POLYPROPYLENE

X -

TUBING SAMPLING

E - SILICONE

F - ROPE

G - COMBINATION TEFLON/POLYPROPYLENE

OTHER (SPECIFY) _____

FILTERING DEVICES

A - IN-LINE DISPOSABLE

B - PRESSURE

C - VACUUM

PORE SIZE : _____

DEVELOPMENT/PURGING FIELD MEASUREMENTS ARE RECORDED ON PAGE 2.

SAMPLING INFORMATION

SAMPLE DATE/TIME: _____

WEATHER CONDITIONS AT TIME OF SAMPLING: _____

SAMPLE ID: _____

SAMPLE WAS FILTERED FOR (ANALYSIS): _____

SAMPLE APPEARANCE: _____

Well Development, Purging, and Sampling Form

(Form SP-06)

Page 2 of 2

PROJECT #: 13876
WELL ID: M W. 13RPROJECT NAME: Southland CircleDATE: 5/25/18FIELD PERSONNEL: David Boytawson

FIELD MEASUREMENTS

DATE	TIME Units: Stabilization:	VOLUME (L) (US gal)	TEMPERATURE (°C) (°F) ±10%	CONDUCTIVITY (mS/cm) (μ S/cm) ±10%	pH -	TURBIDITY (NTU) <5	COLOUR -	ODOUR -	COMMENTS
5/25/18	16:18	5	24.95	.275	6.82	MAX	Brown	slight	moderly
5/25/18	16:31	10	23.95	.300	6.79	MAX	Brown	slight	↓
5/25/18	16:43	15	23.06	.308	6.75	MAX	Brown	↑	moderly
5/25/18	17:00	20	23.22	.312	6.73	MAX	↓	↓	

Appendix B

Well Purge and Sample Forms

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 6/4/18
 Personnel: S. Gross

Monitoring Well Data:

Well ID: MW-1
 Measured Well Depth (ft): 18.08
 Screen Length (ft): 10
 Well Diameter, D (in): 2"
 Total Volume in Well (gal): 1.65

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
 Depth to Pump Intake (ft)⁽¹⁾: 13
 Initial Depth to Water (ft): 7.75
 Total Volume Purged (gal): 0.86

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾		Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
			Precision Required:	±3 %	±0.005 or 0.01 ⁽³⁾	±10 %	±10 %	±0.1 Units	±10 mV	
Began Pumping										
0916	60	7.81	0.06	30.19	0.128	21.3	1.43	6.48	119	
0930		7.85	0.10	29.52	0.112	13.5	0.82	6.71	174	
0935		7.88	0.13	28.36	0.094	10.2	0.07	7.02	206	
0940		7.92	0.17	27.94	0.087	8.46	0.00	7.07	220	
0945		7.94	0.21	27.31	0.083	7.42	0.00	7.08	220	
0950		8.00	0.25	26.93	0.079	6.70	0.00	7.07	227	
0955		8.03	0.28	26.72	0.080	6.19	0.00	7.09	227	
1000		8.07	0.32	26.31	0.079	5.10	0.00	7.12	229	
1005	↓	8.10	0.35	26.19	0.079	5.90	0.00	7.11	230	
Sample Time										
		Sample ID	<u>GW-018876-060418-SAG-001</u>							
			<u>3XVOA5 (VOCs)</u>							

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 6/4/18
 Personnel: Stephanie Lindo

Monitoring Well Data:

Well ID: MW - 2
 Measured Well Depth (ft): 17.38
 Screen Length (ft): 10'
 Well Diameter, D (in): 2"
 Total Volume in Well (gal): 0.98

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
 Depth to Pump Intake (ft)⁽¹⁾: 12'
 Initial Depth to Water (ft): 11.21
 Total Volume Purged (gal): 0.63

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown		Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
			from Initial Water Level ⁽²⁾	Precision Required: ±3 %						
<u>13:32 Began Pumping</u>										
13:42	60	11.48	.27	30.53	0.278	1.99	10.58	6.50	-74	
13:47	60	11.45	.24	30.02	0.280	1.60	1.35	6.49	-81	
13:52	60	11.45	.24	30.27	0.279	1.31	1.22	6.49	-85	
13:57	60	11.45	.24	30.45	0.278	1.31	1.13	6.51	-90	
14:02	60	11.45	.24	30.87	0.277	1.43	1.09	6.51	-92	
14:07	60	11.43	.22	30.79	0.280	1.19	1.14	6.53	-93	
Sample Time			<u>14:12</u>							
		Sample ID	<u>GW-018876-060418-SDL-102</u>		<u>MS/MSD</u>					

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 6/6/18
 Personnel: J. Grace

Monitoring Well Data:

Well ID: MW-3
 Measured Well Depth (ft): NM
 Screen Length (ft): 10
 Well Diameter, D (in): 4"
 Total Volume in Well (gal): -

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
 Depth to Pump Intake (ft)⁽¹⁾: ~16'
 Initial Depth to Water (ft): 8.18
 Total Volume Purged (gal): 1.08

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown		Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
			from Initial Water Level ⁽³⁾	Precision Required: ±3 %						
<i>Began Pumping @ 1045</i>										
1035	75	8.41	0.23	24.12	0.093	13.0	0.00	6.73	122	
1100		8.45	0.27	24.06	0.085	15.7	0.00	6.72	122	
1105		8.48	0.30	24.11	0.087	12.9	0.00	6.73	116	
1110		8.51	0.33	24.20	0.090	13.6	0.00	6.75	92	
1115		8.55	0.37	24.31	0.093	12.9	0.00	6.76	87	
1120		8.57	0.39	24.52	0.097	8.14	0.00	6.77	79	
1125		8.60	0.42	24.73	0.099	9.35	0.00	6.73	71	
1130	↓	8.63	0.45	24.76	0.101	10.5	0.00	6.73	75	
<i>Sample Time 1140</i>										
		Sample ID	<u>GW-018876-060618-SAG-010</u>							
			<u>18C°, PCB Anchilar, PCB Homolog</u>							

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ± 0.005 mS/cm or where conductivity >1 mS/cm ± 0.01 mS/cm.

MULTI-VOLUME PURGING & SAMPLING RECORD

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 6/6/18
 Personnel: S. Grace

Monitoring Well Data:

Well ID: MW-4
 Measured Well Depth (ft): 24.78
 Screen Length (ft): 10'
 Well Diameter (in): 1"
 Total Volume in Well (gal): 0.67
 Total Volume Purged (gal): 0.6

Purging/Sampling Data:

Purging/Sampling Device: Peristaltic
 Depth to Pump at the start (ft)⁽¹⁾: 12
 Depth to Pump at the end (ft)⁽¹⁾: 24
 Initial Depth to Water (ft): 9.76
 Start/End Purge Time: 945 / 952
 Final Purge Rate (gal/min)⁽²⁾: .08 gpm

Volume Purged (gal)	Depth to Water (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
Precision Required ⁽⁴⁾ :	±3 %	±0.005 or 0.01 ⁽³⁾		±10 %	±10 %	±0.1 Units	±10 mV
<u>.3</u>	<u>NM</u>	<u>21.47</u>	<u>0.199</u>	<u>277</u>	<u>4.37</u>	<u>6.49</u>	<u>-28</u>
<u>.6</u>	<u>↓</u>	<u>22.43</u>	<u>0.186</u>	<u>194</u>	<u>8.55</u>	<u>8.66</u>	<u>-10</u>
<u>4</u> ← <u>DRY</u> →		DRY		DRY		DRY	
Sample Time	<u>1005</u>						
Sample ID	<u>GW-018876-060618-SAG-009</u>						
	<u>VOC's, PCB-Arochlor</u>						

Notes:

- (1) The pump intake should be within one foot in the top of the standing water column, then can be lowered as needed to accommodate the drawdown.
 It is advised that the intake not be lowered more than three to five feet into the water column.
- (2) It is recommended to set the pumping rate at a lower rate not to exceed 500 mL/min to avoid pumping the well dry if possible.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
- (4) For other parameters' precisions required, see the above listed.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 6/4/18
 Personnel: B. Gossow

Monitoring Well Data:

Well ID: MW-5
 Measured Well Depth (ft): 22.14
 Screen Length (ft): 10
 Well Diameter, D (in): 2"
 Total Volume in Well (gal): 2.8

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
 Depth to Pump Intake (ft)⁽¹⁾: 17
 Initial Depth to Water (ft): 11.34
 Total Volume Purged (gal): 0.87

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽²⁾		Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
			Precision Required:	±3 %						
<i>Began Pumping @ 1205</i>										
1215	60	4.41	0.07	32.04	0.090	91.1	0.00	6.40	71	
1220	1	4.46	0.12	28.13	0.87	80.7	0.00	6.31	52	
1225		4.49	0.15	27.69	0.83	74.8	0.00	6.24	39	
1230		4.53	0.19	27.86	0.091	68.1	0.00	6.17	34	
1235		4.57	0.23	27.08	0.078	72.2	0.00	6.10	29	
1240		4.60	0.26	26.50	0.077	75.6	0.00	6.23	7	
1245		4.64	0.30	25.57	0.071	68.7	0.00	6.19	-3	
1250		4.67	0.33	25.39	0.071	67.4	0.00	6.17	-5	
1255	↓	4.70	0.36	25.33	0.071	65.4	0.00	6.17	-7	
Sample Time			1300							
		Sample ID	<u>GW-018876-060418-SAG-002</u>							

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
Ref. No.: 18876

Date: 6/4/18
sonnel: Stephanie Linda

Monitoring Well Data:

Well ID: MW-6
Measured Well Depth (ft): 36.70
Screen Length (ft): 10.4
Well Diameter, D (in): 2"
Total Volume in Well (gal): 3.96

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
Depth to Pump Intake (ft)⁽¹⁾: 30'
Initial Depth to Water (ft): 11.93
Total Volume Purged (gal): 0.71

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
 - (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
 - (3) For conductivity, the average value of three readings $<1 \text{ mS/cm} \pm 0.005 \text{ mS/cm}$ or where conductivity $>1 \text{ mS/cm} \pm 0.01 \text{ mS/cm}$.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 6/5/18
 Personnel: Stephanie L.

Monitoring Well Data:

Well ID: MN-7
 Measured Well Depth (ft): 41.70
 Screen Length (ft): 10
 Well Diameter, D (in): 2
 Total Volume in Well (gal): 3.93

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
 Depth to Pump Intake (ft)⁽¹⁾: 45'
 Initial Depth to Water (ft): 17.13
 Total Volume Purged (gal): 0.95

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾		Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
			Precision Required:	±3 %						
9:55 Began Pumping										
10:05	60	17.30	0.17	24.70	0.004	0.00	7.20	4.35	300	
10:10	60	17.21	0.08	24.66	0.004	0.00	7.17	4.37	304	
10:15	60	17.39	0.26	24.45	0.256	4.00	0.00	6.13	284	
10:30	60	17.20	0.07	24.07	0.243	0.00	0.00	6.59	284	
10:35	60	17.30	0.17	24.04	0.244	0.00	0.00	6.63	287	
10:40	60	17.23	0.10	24.15	0.244	0.00	0.84	6.66	235	
10:45	60	17.43	0.30	24.25	0.241	2.20	0.00	6.65	248	
10:50	60	17.50	0.37	24.34	0.231	2.84	0.66	6.69	266	
Sample Time			10:55							
		Sample ID	<u>GW-018876-060518-SDL-103</u>							

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 05/18
 Personnel: S. Grace

Monitoring Well Data:

Well ID: MW-8D
 Measured Well Depth (ft): 69.02
 Screen Length (ft): 10'
 Well Diameter, D (in): 2"
 Total Volume in Well (gal): 8.03

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
 Depth to Pump Intake (ft)⁽¹⁾: 64
 Initial Depth to Water (ft): 18.79
 Total Volume Purged (gal): 1.28

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾		Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
			Precision Required:	±3 %	±0.005 or 0.01 ⁽³⁾					
<i>Began Pumping @ 0804</i>										
815	60	18.84	0.05	11.11	0.121	64.8	0.00	6.63	204	
820		18.87	0.08	21.36	0.120	57.1	0.00	6.61	206	
825		18.89	0.10	21.41	0.119	54.3	0.00	6.60	208	
830		18.89	0.10	21.31	0.116	49.9	0.00	6.58	210	
835		18.90	0.11	21.60	0.115	45.0	0.00	6.57	211	
840		18.90	0.11	21.57	0.114	44.9	0.00	6.56	211	
845		18.90	0.11	21.62	0.113	44.0	0.00	6.55	212	
850		18.90	0.11	21.73	0.113	45.0	0.00	6.53	211	
855	▼	18.90	0.11	21.71	0.112	48.2	0.00	6.52	211	
		Sample Time		925						
		Sample ID	Took sample MW-018876-060518-SAG-005							
0910		18.90	0.11	21.91	0.111	36.4	0.00	6.52	210	
0915		18.90	0.11	21.96	0.111	36.3	0.00	6.53	209	

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 6/5/18
 Personnel: S. Grace

Monitoring Well Data:

Well ID: MW-8R
 Measured Well Depth (ft): 30.74
 Screen Length (ft): 10
 Well Diameter, D (in): 2"
 Total Volume in Well (gal): 1.93

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
 Depth to Pump Intake (ft)⁽¹⁾: 25.3
 Initial Depth to Water (ft): 18.65
 Total Volume Purged (gal): 1.61

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown		Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
			from Initial Water Level ⁽³⁾	Precision Required: ±3 %						
<i>Began Pumping @ 1003</i>										
1025	60	18.73	0.08	23.66	0.098	92.5	0.00	6.56	-85	
1030		18.76	0.11	23.68	0.098	83.9	0.00	6.56	-86	
1035		18.79	0.14	23.80	0.098	78.6	0.00	6.57	-90	
1040		18.82	0.17	24.01	0.098	65.0	0.00	6.58	-94	
1045		18.85	0.20	24.16	0.097	56.2	0.00	6.59	-95	
1050		18.87	0.22	24.39	0.097	50.4	0.00	6.59	-97	
1055		18.89	0.24	24.56	0.097	42.1	0.00	6.59	-94	
1100		18.91	0.26	24.89	0.097	36.9	0.00	6.60	-90	
1105	↓	18.94	0.27	25.02	0.097	32.4	0.00	6.60	-88	
1110	Sample Time			25.40	0.097	27.7	0.00	6.61	-87	
	Sample ID			GW-018876-000518-SAG-006	1140					
	DUPLICATE			GW-018876-000518-SAG-007	1145					
1135	60	18.99	0.32	26.02	0.096	26.7	0.00	6.60	-85	

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 6/6/18
 Personnel: S. Grana

Monitoring Well Data:

Well ID: MW-9
 Measured Well Depth (ft): 18.51 (full of sediment) 23.52 after sed. removed
 Screen Length (ft): 10
 Well Diameter, D (in): 1"
 Total Volume in Well (gal): 0.43

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
 Depth to Pump Intake (ft)⁽¹⁾: 18.51 / 23
 Initial Depth to Water (ft): 18.43
 Total Volume Purged (gal): 1.03

Time	Pumping Rate (mL/min)	Drawdown		Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
		Depth to Water (ft)	from Initial Water Level ⁽³⁾ (ft)						
<i>Began Pumping @ 825</i>									
825	600	NM	NM	20.26	0.122	621	0.00	6.84	101
840				19.31	0.110	367	0.00	6.71	14
845				19.08	0.101	215	0.00	6.69	-1
850				18.94	0.110	161	0.00	6.62	-10
855				18.71	0.112	139	0.00	6.59	-14
900				18.67	0.113	120	0.00	6.55	-11
905				18.63	0.114	101	0.00	6.52	-9
910				18.60	0.114	94.9	0.00	6.52	-8
915				18.53	0.115	92.1	0.00	6.53	-7
Sample Time		920							
		Sample ID		<u>GW-018876-060618-SAG-008</u>					
				<u>YOLC</u>					

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 6/6/18
 Personnel: Stephanie L.

Monitoring Well Data:

Well ID: MW-10
 Measured Well Depth (ft): 20.23
 Screen Length (ft): 10
 Well Diameter, D (in): 2
 Total Volume in Well (gal): 1.11

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
 Depth to Pump Intake (ft)⁽¹⁾: 15'
 Initial Depth to Water (ft): 13.25
 Total Volume Purged (gal): 0.47

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾		Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
			Precision Required:	±3 %						
<u>9:55 Began Pumping</u>										
10:00	60	13.42	0.17	23.05	0.268	0.00	0.00	6.83	-9	
10:05	60	13.45	0.20	22.96	0.239	0.00	0.00	6.35	-52	
10:10	60	13.45	0.20	22.75	0.244	0.00	0.00	6.43	-63	
10:15	60	13.49	0.24	22.55	0.246	0.00	0.00	6.48	-68	
10:20	60	13.51	0.26	22.39	0.248	0.00	0.00	6.49	-72	
Sample Time			<u>10:25</u>							
		Sample ID	<u>GW-018876 - 060618 - SDL-106</u>							

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MULTI-VOLUME PURGING & SAMPLING RECORD

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 6/5/18
 Personnel: Stephanie L.

Monitoring Well Data:

Well ID: MW - 11
 Measured Well Depth (ft): 30.33
 Screen Length (ft): 10
 Well Diameter (in): 2
 Total Volume in Well (gal): 2.4
 Total Volume Purged (gal): 7.2

Purging/Sampling Data:

Purging/Sampling Device: Peristaltic
 Depth to Pump at the start (ft)⁽¹⁾: 25'
 Depth to Pump at the end (ft)⁽¹⁾:
 Initial Depth to Water (ft): 15.35
 Start/End Purge Time: 11:45
 Final Purge Rate (gal/min)⁽²⁾: 0.09 gal/min

Volume Purged (gal)	Depth to Water (ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
Precision Required ⁽⁴⁾ :	±3 %	±0.005 or 0.01 ⁽³⁾	±10 %	±10 %	±0.1 Units	±10 mV	
2.4	16.49	28.20	0.473	0.00	5.59	5.59	291
4.8	19.40	24.64	0.441	0.00	0.00	5.66	343
7.2	21.03	24.67	0.428	0.00	0.00	5.70	367
Sample Time	13:30						
Sample ID	MW-018876-060518-SDL-104						

Notes:

- (1) The pump intake should be within one foot in the top of the standing water column, then can be lowered as needed to accommodate the drawdown.
 It is advised that the intake not be lowered more than three to five feet into the water column.
- (2) It is recommended to set the pumping rate at a lower rate not to exceed 500 mL/min to avoid pumping the well dry if possible.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.
- (4) For other parameters' precisions required, see the above listed.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 6/4/18
 Personnel: S. Gray

Monitoring Well Data:

Well ID: MW-V2
 Measured Well Depth (ft): 40.25
 Screen Length (ft): 10
 Well Diameter, D (in): 2
 Total Volume in Well (gal): 9.5

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
 Depth to Pump Intake (ft)⁽¹⁾: 30
 Initial Depth to Water (ft): 11.70
 Total Volume Purged (gal): 0.95

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown		Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)
			from Initial Water Level ⁽³⁾	Precision Required: ±3 %						
Began Pumping @ 1440										
1450	60	11.80	0.10	31.55	0.085	17.6	0.00	5.78	216	
1455	1	11.85	0.15	30.96	0.085	16.2	0.00	5.71	279	
1500		11.88	0.18	30.23	0.085	13.9	0.00	5.61	285	
1505		11.91	0.21	30.24	0.083	12.2	0.00	5.56	294	
1510		11.94	0.24	30.04	0.083	12.1	0.00	5.55	298	
1515		11.97	0.27	30.00	0.083	11.6	0.00	5.55	300	
1520		11.99	0.29	29.95	0.082	10.2	0.00	5.56	301	
1525		12.01	0.31	30.12	0.083	6.69	0.00	5.60	299	
1530	↓	12.04	0.33	30.25	0.083	7.50	0.00	5.58	302	
Sample Time			1540							
		Sample ID	<u>GW-018876-060418-SAG-004</u>							

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
 Ref. No.: 18876

Date: 6/4/18
 Personnel: S. Griggs

Monitoring Well Data:

Well ID: MW-12D
 Measured Well Depth (ft): 70.65
 Screen Length (ft): 10'
 Well Diameter, D (in): 2"
 Total Volume in Well (gal): 9.4

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
 Depth to Pump Intake (ft)⁽¹⁾: 65.5
 Initial Depth to Water (ft): 12.04
 Total Volume Purged (gal): 0.99

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level ⁽³⁾	Precision Required:		Turbidity NTU	DO (mg/L)	pH	ORP (mV)
				°C	(mS/cm)				
<i>Began Pumping @ 1307</i>									
1320	60	12.10	0.06	29.39	0.094	42.4	7.11	12.06	-18
1325		12.10	0.06	29.08	0.113	34.8	6.65	12.10	-7
1330		12.10	0.06	29.18	0.117	27.8	6.93	12.11	-2
1335		12.10	0.06	29.05	0.123	22.7	6.36	12.13	3
1340		12.10	0.06	29.43	0.135	16.8	6.07	12.16	7
1345		12.10	0.06	29.47	0.142	19.0	5.71	12.20	9
1350		12.10	0.06	29.56	0.151	14.6	5.26	12.23	7
1355		12.10	0.06	29.61	0.153	14.1	5.16	12.25	4
1400	↓	12.10	0.06	29.74	0.155	13.9	5.12	12.26	4
Sample Time			1410						
		Sample ID	<u>GW-018876-060418-SAG-003</u>						

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Southland Circle
Ref. No.: 18876

Date: 4/5/18
Personnel: Stephanie L.

Monitoring Well Data:

Well ID: MW-13R
Measured Well Depth (ft): 30.10
Screen Length (ft): 10'
Well Diameter, D (in): 2"
Total Volume in Well (gal): 2.5

Purging/Sampling Data:

Purging/Sampling Device: peristaltic
Depth to Pump Intake (ft)⁽¹⁾: 25'
Initial Depth to Water (ft): 15.05
Total Volume Purged (gal): 0.55

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Water Level ⁽³⁾ (ft)	Drawdown		Turbidity NTU	DO (mg/L)	pH	ORP (mV)
				from Initial	Temperature °C				
<u>14:00 Began Pumping</u>									
14:05	60	15.28	0.23	32.88	0.275	71.2	0.00	6.41	-26
14:10	60	15.30	0.25	32.04	0.272	48.8	0.05	6.42	-29
14:15	60	15.32	0.27	31.24	0.275	6.26	0.13	6.42	-36
14:20	60	15.28	0.23	30.88	0.278	6.43	0.14	6.43	-41
14:25	60	15.33	0.28	30.54	0.274	0.00	0.03	6.32	-24
14:30	60	15.35	0.30	30.25	0.274	0.00	0.00	6.29	-22
Sample Time				<u>14:35</u>					
				Sample ID <u>EW-018876-060518-SBL-105</u>					

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Appendix C

Data Validation Memorandum, Analytical Laboratory Reports and Field Sample Keys



Memorandum

July 3, 2018

To: Brian Longo Ref. No.: 018876
J

From: Jeffrey Cloud/eew/10-NF Tel: 206-914-3141

CC: Terefe Mazengia, Steven Grace

Subject: Analytical Results and Reduced Validation of Reports 265427, 265835, 265834, 265838 and 265840
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018

1. Introduction

This document details a reduced validation of analytical results for soil, groundwater and sediment samples collected in support of the VRP Investigation at the Southland Circle Site in Atlanta, Georgia during May and June 2018. Samples were submitted to Pace Analytical Services, located in Peachtree Corners, Georgia. A sample collection and analysis summary is presented in Table 1. A summary of the analytical methodology is presented in Table 2. The validated analytical results are summarized in Tables 3A, 3B and 3C.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, duplicate data, recovery data from surrogate spikes, laboratory control samples, matrix spikes and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 2 and applicable guidance from the documents entitled:

- i.) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008
- ii.) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

These items will subsequently be referred to as the "Guidelines" in this Memorandum.



2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in the methods. The sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All sample containers were properly preserved, delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation with the exception of a few analytes present at low concentrations. The associated sample results with concentrations similar to the blanks were qualified as non-detect due to contamination as evidenced by the blanks (see Table 4).

4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) and polychlorinated biphenyl (PCB) analysis were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against the control limits. All surrogate recoveries met the associated criteria with the exception of two high VOC surrogate recoveries. The associated non-detect results were not impacted and the associated sample detections were qualified as estimated due to the implied high bias (see Table 5).

5. Laboratory Control Sample Analyses

Laboratory control samples (LCS) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.



The LCS contained all analytes of interest. All LCS recoveries were within associated control limits, demonstrating acceptable analytical accuracy with the exception of two high recoveries. The associated non-detect results were not impacted and the associated sample detection was qualified as estimated due to the implied high bias (see Table 6).

6. Matrix Spike/Matrix Spike Duplicate Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as matrix spike/matrix spike duplicate (MS/MSD) samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision. MS/MSD analyses were performed as specified in Table 1. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. If only the MS or MSD was outside of the control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

The MS/MSD samples were spiked with the analytes of interest. All percent recoveries and RPD values were within the associated control limits, demonstrating acceptable analytical accuracy and precision with a few exceptions. Where high recoveries or RPDs were found the associated sample results were non-detect and were not impacted. Where low recoveries were found the associated sample results were qualified as estimated due to the implied low bias (see Table 7).

7. Duplicate Sample Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, a duplicate sample was prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines". The duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

8. Field QA/QC Samples

The field QA/QC consisted of three trip blank samples and two field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, three trip blank were submitted to the laboratory for analysis. All results were non-detect for the analytes of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, two field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 and 100 percent for water and soil samples, respectively. If the reported



concentration in both the investigative sample and its duplicate are less than five times the reporting limit (RL), the evaluation criterion is one or two times the RL value for water and soil samples, respectively.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

9. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were reported as estimated (J) in Tables 3A, 3B and 3C unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Tables 3A, 3B and 3C.

All soil results were reported on a dry weight basis.

10. Conclusion

Based on the assessment detailed in the foregoing, the summarized data are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018

Sample Identification	Location	Matrix	Initial Sample Depth	Final Sample Depth	Collection Date	Collection Time	Moisture	PCBs	PCB Homologs	VOCS	Comments	<u>Analysis/Parameters</u>
			(ft. bgs.)	(ft. bgs.)	(mm/dd/yyyy)	(hr:min)						
GW-018876-060418-SAG-001	MW-1	Water	--	--	06/04/2018	10:10				X		
GW-018876-060418-SDL-102	MW-2	Water	--	--	06/04/2018	14:12		X	X	X		MS/MSD
GW-018876-060618-SAG-010	MW-3	Water	--	--	06/06/2018	11:40		X	X	X		
GW-018876-060618-SAG-009	MW-4	Water	--	--	06/06/2018	10:05		X		X		
GW-018876-060418-SAG-002	MW-5	Water	--	--	06/04/2018	13:00				X		
GW-018876-060418-SDL-101	MW-6	Water	--	--	06/04/2018	13:10				X		
GW-018876-060518-SDL-103	MW-7	Water	--	--	06/05/2018	10:55				X		
GW-018876-060518-SAG-005	MW-8D	Water	--	--	06/05/2018	09:25		X	X	X		
GW-018876-060518-SAG-006	MW-8R	Water	--	--	06/05/2018	11:40		X		X		
GW-018876-060518-SAG-007	MW-8R	Water	--	--	06/05/2018	11:45		X		X		FD (GW-018876-060518-SAG-006)
GW-018876-060618-SAG-008	MW-9	Water	--	--	06/06/2018	09:20				X		
GW-018876-060618-SDL-106	MW-10	Water	--	--	06/06/2018	10:25				X		
GW-018876-060518-SDL-104	MW-11	Water	--	--	06/05/2018	13:30		X		X		
GW-018876-060418-SAG-004	MW-12	Water	--	--	06/04/2018	15:40		X	X	X		
GW-018876-060418-SAG-003	MW-12D	Water	--	--	06/04/2018	14:10		X	X	X		
GW-018876-060518-SDL-105	MW-13R	Water	--	--	06/05/2018	14:35		X		X		
GW-018876-060618-SDL-107	RW-1	Water	--	--	06/06/2018	11:10		X	X	X		
S-018876.052318-DJB-001	SB-1-2018	Soil	0	1	05/23/2018	11:00	X	X		X		MS/MSD
S-018876.052318-DJB-002	SB-2-2018	Soil	13	15	05/23/2018	11:15	X	X	X	X		
S-018876.052318-DJB-003	SB-3-2018	Soil	0	2	05/23/2018	11:30	X	X	X			
SO-018876-060718-SAG-406	SB-3-2018	Soil	0.5	1	06/07/2018	10:00	X	X		X		
S-018876.052318-DJB-004	SB-4-2018	Soil	6	8	05/23/2018	11:45	X	X				

Table 1

Sample Collection and Analysis Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018

Sample Identification	Location	Matrix	Initial	Final	Collection	Collection	Moisture	PCBs	PCB Homologs	VOCs	Comments	Analysis/Parameters
			Sample Depth (ft. bgs.)	Sample Depth (ft. bgs.)	Date (mm/dd/yyyy)	Time (hr:min)						
SO-018876-060718-SAG-405	SB-4-2018	Soil	1.5	2	06/07/2018	09:45	X	X				
SO-018876-060718-SAG-404	SB-5-2018	Soil	1.5	2	06/07/2018	09:40	X	X	X			
SO-018876-060718-SAG-402	SB-6-2018	Soil	1	1.5	06/07/2018	09:15	X	X				
SO-018876-060718-SAG-403	SB-6-2018	Soil	1	1.5	06/07/2018	09:20	X	X				FD (SO-018876-060718-SAG-402)
SO-018876-060718-SAG-401	SB-7-2018	Soil	0	1	06/07/2018	09:00	X	X	X			
SW-018876-060718-SAG-201	SD-1-2018	Water	--	--	06/07/2018	08:30		X	X	X		MS/MSD
SED-018876-060718-SAG-301	SD-1-2018	Sediment	--	--	06/07/2018	08:40	X	X	X	X		DUP - MS/MSD
SW-018876-060718-SAG-202	SD-2-2018	Water	--	--	06/07/2018	10:35		X	X	X		
SED-018876-060718-SAG-302	SD-2-2018	Sediment	--	--	06/07/2018	10:45	X	X	X	X		
Trip Blank	--	Water	--	--	06/04/2018	--					X	Trip Blank
Trip Blank	--	Water	--	--	06/04/2018	--					X	Trip Blank
Trip Blank	--	Water	--	--	06/07/2018	--					X	Trip Blank

Notes:

ft. bgs. - Feet below ground surface

DUP - Laboratory Duplicate

FD - Field Duplicate sample of sample in parenthesis

MS/MSD - Matrix Spike/Matrix Spike Duplicate

VOCs - Volatile Organic Compounds

PCBs - Polychlorinated Biphenyls

"--" - Not Applicable

Table 2

Analytical Methods
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018

Parameter	Method	Matrix
Volatile Organic Compounds (VOCs)	SW-846 8260B ⁽¹⁾	Water Soil Sediment
Polychlorinated Biphenyls (PCBs)	SW-846 8082A ⁽¹⁾	Water Soil Sediment
PCB Homologs	EPA 1668 ⁽²⁾	Soil
Moisture	Moisture ⁽³⁾ ASTM D2974 ⁽⁴⁾	Soil Sediment

Notes:

- (1) - SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- (2) - EPA - U.S. Environmental protection Agency. Analytical Methodology (October, 2007)
- (3) - Pace SOP #204
- (4) - ASTM - Annual Book of ASTM Standards, American Society for Testing Materials, Section 5 and Section 11

Table 3A

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	SB-1-2018	SB-2-2018	SB-3-2018	SB-3-2018
Sample Name:	S-018876.052318-DJB-001	S-018876.052318-DJB-002	S-018876.052318-DJB-003	SO-018876-060718-SAG-406
Sample Date:	05/23/2018	05/23/2018	05/23/2018	06/07/2018
Depth:	0-1 ft bgs	13-15 ft bgs	0-2 ft bgs	0.5-1 ft bgs

Parameters	Unit
Volatile Organic Compounds	
1,1,1-Trichloroethane	µg/kg
1,1,2,2-Tetrachloroethane	µg/kg
1,1,2-Trichloroethane	µg/kg
1,1-Dichloroethane	µg/kg
1,1-Dichloroethene	µg/kg
1,2,4-Trichlorobenzene	µg/kg
1,2,4-Trimethylbenzene	µg/kg
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg
1,2-Dibromoethane (Ethylene dibromide)	µg/kg
1,2-Dichlorobenzene	µg/kg
1,2-Dichloroethane	µg/kg
1,2-Dichloropropane	µg/kg
1,3,5-Trimethylbenzene	µg/kg
1,3-Dichlorobenzene	µg/kg
1,4-Dichlorobenzene	µg/kg
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg
2-Hexanone	µg/kg
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg
Acetone	µg/kg
Benzene	µg/kg
Bromodichloromethane	µg/kg
Bromoform	µg/kg
Bromomethane (Methyl bromide)	µg/kg
Carbon disulfide	µg/kg
Carbon tetrachloride	µg/kg
Chlorobenzene	µg/kg
Chloroethane	µg/kg
Chloroform (Trichloromethane)	µg/kg
Chloromethane (Methyl chloride)	µg/kg
cis-1,2-Dichloroethene	µg/kg
cis-1,3-Dichloropropene	µg/kg
Cyclohexane	µg/kg

1,1,1-Trichloroethane	9.7 U	11.9 U	--	--
1,1,2,2-Tetrachloroethane	9.7 U	11.9 U	--	--
1,1,2-Trichloroethane	9.7 U	11.9 U	--	--
1,1-Dichloroethane	9.7 U	11.9 U	--	--
1,1-Dichloroethene	9.7 U	11.9 U	--	--
1,2,4-Trichlorobenzene	9.7 U	11.9 U	--	--
1,2,4-Trimethylbenzene	9.7 U	11.9 U	--	--
1,2-Dibromo-3-chloropropane (DBCP)	9.7 U	11.9 U	--	--
1,2-Dibromoethane (Ethylene dibromide)	9.7 U	11.9 U	--	--
1,2-Dichlorobenzene	9.7 U	11.9 U	--	--
1,2-Dichloroethane	9.7 U	11.9 U	--	--
1,2-Dichloropropane	9.7 U	11.9 U	--	--
1,3,5-Trimethylbenzene	9.7 U	11.9 U	--	--
1,3-Dichlorobenzene	9.7 U	11.9 U	--	--
1,4-Dichlorobenzene	9.7 U	11.9 U	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	96.7 U	119 U	--	--
2-Hexanone	48.3 U	59.5 U	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	48.3 U	59.5 U	--	--
Acetone	24.7 J	26.0 J	--	--
Benzene	9.7 U	11.9 U	--	--
Bromodichloromethane	9.7 U	11.9 U	--	--
Bromoform	9.7 U	11.9 U	--	--
Bromomethane (Methyl bromide)	9.7 U	11.9 U	--	--
Carbon disulfide	1.1 J	1.1 J	--	--
Carbon tetrachloride	9.7 U	11.9 U	--	--
Chlorobenzene	9.7 U	11.9 U	--	--
Chloroethane	9.7 U	11.9 U	--	--
Chloroform (Trichloromethane)	9.7 U	11.9 U	--	--
Chloromethane (Methyl chloride)	9.7 U	11.9 U	--	--
cis-1,2-Dichloroethene	9.7 U	11.9 U	--	--
cis-1,3-Dichloropropene	9.7 U	11.9 U	--	--
Cyclohexane	9.7 U	11.9 U	--	--

Table 3A

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	SB-1-2018	SB-2-2018	SB-3-2018	SB-3-2018
Sample Name:	S-018876.052318-DJB-001	S-018876.052318-DJB-002	S-018876.052318-DJB-003	SO-018876-060718-SAG-406
Sample Date:	05/23/2018	05/23/2018	05/23/2018	06/07/2018
Depth:	0-1 ft bgs	13-15 ft bgs	0-2 ft bgs	0.5-1 ft bgs

Parameters	Unit
Volatile Organic Compounds (Continued)	
Dibromochloromethane	µg/kg
Dichlorodifluoromethane (CFC-12)	µg/kg
Ethylbenzene	µg/kg
Isopropyl benzene	µg/kg
Methyl acetate	µg/kg
Methyl cyclohexane	µg/kg
Methyl tert butyl ether (MTBE)	µg/kg
Methylene chloride	µg/kg
Styrene	µg/kg
Tetrachloroethene	µg/kg
Toluene	µg/kg
trans-1,2-Dichloroethene	µg/kg
trans-1,3-Dichloropropene	µg/kg
Trichloroethene	µg/kg
Trichlorofluoromethane (CFC-11)	µg/kg
Trifluorotrichloroethane (CFC-113)	µg/kg
Vinyl chloride	µg/kg
Xylenes (total)	µg/kg

Dibromochloromethane	9.7 U	11.9 U	--	--
Dichlorodifluoromethane (CFC-12)	9.7 U	11.9 U	--	--
Ethylbenzene	9.7 U	11.9 U	--	--
Isopropyl benzene	9.7 U	11.9 U	--	--
Methyl acetate	9.7 U	11.9 U	--	--
Methyl cyclohexane	9.7 U	11.9 U	--	--
Methyl tert butyl ether (MTBE)	9.7 U	11.9 U	--	--
Methylene chloride	0.74 J	0.81 J	--	--
Styrene	9.7 U	11.9 U	--	--
Tetrachloroethene	9.7 U	11.9 U	--	--
Toluene	9.7 U	11.9 U	--	--
trans-1,2-Dichloroethene	9.7 U	11.9 U	--	--
trans-1,3-Dichloropropene	9.7 U	11.9 U	--	--
Trichloroethene	9.7 U	11.9 U	--	--
Trichlorofluoromethane (CFC-11)	9.7 U	11.9 U	--	--
Trifluorotrichloroethane (CFC-113)	48.3 U	59.5 U	--	--
Vinyl chloride	9.7 U	11.9 U	--	--
Xylenes (total)	9.7 U	11.9 U	--	--

PCBs				
(PCB 209) Decachlorobiphenyl	ng/kg	--	50.0 U	864 J
Dichlorobiphenyls C12 H8 Cl2	ng/kg	--	53.1 U	101 U
Heptachlorobiphenyls C12 H3 Cl7	ng/kg	--	50.0 U	675
Hexachlorobiphenyls C12 H4 Cl6	ng/kg	--	50.0 U	1150
Monochlorobiphenyls C12 H9 Cl	ng/kg	--	50.0 U	50.0 U
Nonachlorobiphenyls C12 HCl9	ng/kg	--	50.0 U	190
Octachlorobiphenyl	ng/kg	--	50.0 U	212
Pentachlorobiphenyl	ng/kg	--	50.0 U	561
Tetrachlorobiphenyl	ng/kg	--	50.0 U	193 U
Trichlorobiphenyl	ng/kg	--	50.0 U	113
Aroclor-1016 (PCB-1016)	µg/kg	208 U	51.3 U	201 U
Aroclor-1221 (PCB-1221)	µg/kg	422 U	104 U	409 U
				271 U
				550 U

Table 3A

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	SB-1-2018	SB-2-2018	SB-3-2018	SB-3-2018
Sample Name:	S-018876.052318-DJB-001	S-018876.052318-DJB-002	S-018876.052318-DJB-003	SO-018876-060718-SAG-406
Sample Date:	05/23/2018	05/23/2018	05/23/2018	06/07/2018
Depth:	0-1 ft bgs	13-15 ft bgs	0-2 ft bgs	0.5-1 ft bgs

Parameters	Unit
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PCBs (Continued)

Aroclor-1232 (PCB-1232)	µg/kg	208 U	51.3 U	201 U	271 U
Aroclor-1242 (PCB-1242)	µg/kg	208 U	51.3 U	201 U	271 U
Aroclor-1248 (PCB-1248)	µg/kg	208 U	51.3 U	201 U	271 U
Aroclor-1254 (PCB-1254)	µg/kg	208 U	51.3 U	201 U	1610
Aroclor-1260 (PCB-1260)	µg/kg	208 U	51.3 U	201 U	812

General Chemistry

Percent moisture	%	20.7	35.7	18.3	39.7
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Table 3A

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	SB-3-2018	SB-4-2018	SB-4-2018	SB-5-2018
Sample Name:	SO-018876-060718-SAG-406	S-018876.052318-DJB-004	SO-018876-060718-SAG-405	SO-018876-060718-SAG-404
Sample Date:	06/07/2018	05/23/2018	06/07/2018	06/07/2018
Depth:	--	6-8 ft bgs	1.5-2 ft bgs	1.5-2 ft bgs

Parameters	Unit
Volatile Organic Compounds	
1,1,1-Trichloroethane	µg/kg
1,1,2,2-Tetrachloroethane	µg/kg
1,1,2-Trichloroethane	µg/kg
1,1-Dichloroethane	µg/kg
1,1-Dichloroethene	µg/kg
1,2,4-Trichlorobenzene	µg/kg
1,2,4-Trimethylbenzene	µg/kg
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg
1,2-Dibromoethane (Ethylene dibromide)	µg/kg
1,2-Dichlorobenzene	µg/kg
1,2-Dichloroethane	µg/kg
1,2-Dichloropropane	µg/kg
1,3,5-Trimethylbenzene	µg/kg
1,3-Dichlorobenzene	µg/kg
1,4-Dichlorobenzene	µg/kg
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg
2-Hexanone	µg/kg
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg
Acetone	µg/kg
Benzene	µg/kg
Bromodichloromethane	µg/kg
Bromoform	µg/kg
Bromomethane (Methyl bromide)	µg/kg
Carbon disulfide	µg/kg
Carbon tetrachloride	µg/kg
Chlorobenzene	µg/kg
Chloroethane	µg/kg
Chloroform (Trichloromethane)	µg/kg
Chloromethane (Methyl chloride)	µg/kg
cis-1,2-Dichloroethene	µg/kg
cis-1,3-Dichloropropene	µg/kg
Cyclohexane	µg/kg

1,1,1-Trichloroethane	--	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--
1,1,2-Trichloroethane	--	--	--	--
1,1-Dichloroethane	--	--	--	--
1,1-Dichloroethene	--	--	--	--
1,2,4-Trichlorobenzene	--	--	--	--
1,2,4-Trimethylbenzene	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	--	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	--	--	--	--
1,2-Dichlorobenzene	--	--	--	--
1,2-Dichloroethane	--	--	--	--
1,2-Dichloropropane	--	--	--	--
1,3,5-Trimethylbenzene	--	--	--	--
1,3-Dichlorobenzene	--	--	--	--
1,4-Dichlorobenzene	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	--	--	--	--
2-Hexanone	--	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	--	--	--	--
Acetone	--	--	--	--
Benzene	--	--	--	--
Bromodichloromethane	--	--	--	--
Bromoform	--	--	--	--
Bromomethane (Methyl bromide)	--	--	--	--
Carbon disulfide	--	--	--	--
Carbon tetrachloride	--	--	--	--
Chlorobenzene	--	--	--	--
Chloroethane	--	--	--	--
Chloroform (Trichloromethane)	--	--	--	--
Chloromethane (Methyl chloride)	--	--	--	--
cis-1,2-Dichloroethene	--	--	--	--
cis-1,3-Dichloropropene	--	--	--	--
Cyclohexane	--	--	--	--

Table 3A

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	SB-3-2018	SB-4-2018	SB-4-2018	SB-5-2018
Sample Name:	SO-018876-060718-SAG-406	S-018876.052318-DJB-004	SO-018876-060718-SAG-405	SO-018876-060718-SAG-404
Sample Date:	06/07/2018	05/23/2018	06/07/2018	06/07/2018
Depth:	--	6-8 ft bgs	1.5-2 ft bgs	1.5-2 ft bgs

Parameters	Unit
Volatile Organic Compounds (Continued)	
Dibromochloromethane	µg/kg
Dichlorodifluoromethane (CFC-12)	µg/kg
Ethylbenzene	µg/kg
Isopropyl benzene	µg/kg
Methyl acetate	µg/kg
Methyl cyclohexane	µg/kg
Methyl tert butyl ether (MTBE)	µg/kg
Methylene chloride	µg/kg
Styrene	µg/kg
Tetrachloroethene	µg/kg
Toluene	µg/kg
trans-1,2-Dichloroethene	µg/kg
trans-1,3-Dichloropropene	µg/kg
Trichloroethene	µg/kg
Trichlorofluoromethane (CFC-11)	µg/kg
Trifluorotrichloroethane (CFC-113)	µg/kg
Vinyl chloride	µg/kg
Xylenes (total)	µg/kg

Dibromochloromethane	µg/kg	--	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	--	--
Ethylbenzene	µg/kg	--	--	--	--
Isopropyl benzene	µg/kg	--	--	--	--
Methyl acetate	µg/kg	--	--	--	--
Methyl cyclohexane	µg/kg	--	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	--	--
Methylene chloride	µg/kg	--	--	--	--
Styrene	µg/kg	--	--	--	--
Tetrachloroethene	µg/kg	--	--	--	--
Toluene	µg/kg	--	--	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	--	--
Trichloroethene	µg/kg	--	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	--	--
Vinyl chloride	µg/kg	--	--	--	--
Xylenes (total)	µg/kg	--	--	--	--

PCBs

(PCB 209) Decachlorobiphenyl	ng/kg	4050	--	--	26.8 U
Dichlorobiphenyls C12 H8 Cl2	ng/kg	8410	--	--	26.8 U
Heptachlorobiphenyls C12 H3 Cl7	ng/kg	3080000	--	--	714
Hexachlorobiphenyls C12 H4 Cl6	ng/kg	4440000	--	--	1810
Monochlorobiphenyls C12 H9 Cl	ng/kg	331	--	--	26.8 U
Nonachlorobiphenyls C12 HCl9	ng/kg	42300	--	--	26.8 U
Octachlorobiphenyl	ng/kg	754000	--	--	81.0
Pentachlorobiphenyl	ng/kg	4960000	--	--	2150
Tetrachlorobiphenyl	ng/kg	3230000	--	--	2400
Trichlorobiphenyl	ng/kg	187000	--	--	1160
Aroclor-1016 (PCB-1016)	µg/kg	--	41.2 U	206 U	45.4 U
Aroclor-1221 (PCB-1221)	µg/kg	--	83.6 U	418 U	92.2 U

Table 3A

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	SB-3-2018	SB-4-2018	SB-4-2018	SB-5-2018
Sample Name:	SO-018876-060718-SAG-406	S-018876.052318-DJB-004	SO-018876-060718-SAG-405	SO-018876-060718-SAG-404
Sample Date:	06/07/2018	05/23/2018	06/07/2018	06/07/2018
Depth:	--	6-8 ft bgs	1.5-2 ft bgs	1.5-2 ft bgs

Parameters	Unit
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PCBs (Continued)

Aroclor-1232 (PCB-1232)	µg/kg	--	41.2 U	206 U	45.4 U
Aroclor-1242 (PCB-1242)	µg/kg	--	41.2 U	206 U	45.4 U
Aroclor-1248 (PCB-1248)	µg/kg	--	41.2 U	206 U	45.4 U
Aroclor-1254 (PCB-1254)	µg/kg	--	41.2 U	206 U	45.4 U
Aroclor-1260 (PCB-1260)	µg/kg	--	41.2 U	206 U	45.4 U

General Chemistry

Percent moisture	%	38.6	20.1	20.5	28.2
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Table 3A

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	SB-6-2018	SB-6-2018	SB-7-2018
Sample Name:	SO-018876-060718-SAG-402	SO-018876-060718-SAG-403	SO-018876-060718-SAG-401
Sample Date:	06/07/2018	06/07/2018	06/07/2018
Depth:	1-1.5 ft bgs	1-1.5 ft bgs	0-1 ft bgs
		Duplicate	

Parameters	Unit			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	--	--	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	--
1,1,2-Trichloroethane	µg/kg	--	--	--
1,1-Dichloroethane	µg/kg	--	--	--
1,1-Dichloroethene	µg/kg	--	--	--
1,2,4-Trichlorobenzene	µg/kg	--	--	--
1,2,4-Trimethylbenzene	µg/kg	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	--
1,2-Dichlorobenzene	µg/kg	--	--	--
1,2-Dichloroethane	µg/kg	--	--	--
1,2-Dichloropropane	µg/kg	--	--	--
1,3,5-Trimethylbenzene	µg/kg	--	--	--
1,3-Dichlorobenzene	µg/kg	--	--	--
1,4-Dichlorobenzene	µg/kg	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	--
2-Hexanone	µg/kg	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	--
Acetone	µg/kg	--	--	--
Benzene	µg/kg	--	--	--
Bromodichloromethane	µg/kg	--	--	--
Bromoform	µg/kg	--	--	--
Bromomethane (Methyl bromide)	µg/kg	--	--	--
Carbon disulfide	µg/kg	--	--	--
Carbon tetrachloride	µg/kg	--	--	--
Chlorobenzene	µg/kg	--	--	--
Chloroethane	µg/kg	--	--	--
Chloroform (Trichloromethane)	µg/kg	--	--	--
Chloromethane (Methyl chloride)	µg/kg	--	--	--
cis-1,2-Dichloroethene	µg/kg	--	--	--
cis-1,3-Dichloropropene	µg/kg	--	--	--
Cyclohexane	µg/kg	--	--	--

Table 3A

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

	Location ID:	SB-6-2018	SB-6-2018	SB-7-2018
Sample Name:	SO-018876-060718-SAG-402	SO-018876-060718-SAG-403	SO-018876-060718-SAG-401	
Sample Date:	06/07/2018	06/07/2018	06/07/2018	
Depth:	1-1.5 ft bgs	1-1.5 ft bgs	0-1 ft bgs	Duplicate
Parameters	Unit			
Volatile Organic Compounds (Continued)				
Dibromochloromethane	µg/kg	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	--
Ethylbenzene	µg/kg	--	--	--
Isopropyl benzene	µg/kg	--	--	--
Methyl acetate	µg/kg	--	--	--
Methyl cyclohexane	µg/kg	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	--
Methylene chloride	µg/kg	--	--	--
Styrene	µg/kg	--	--	--
Tetrachloroethene	µg/kg	--	--	--
Toluene	µg/kg	--	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	--
Trichloroethene	µg/kg	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	--
Vinyl chloride	µg/kg	--	--	--
Xylenes (total)	µg/kg	--	--	--
PCBs				
(PCB 209) Decachlorobiphenyl	ng/kg	--	--	2060
Dichlorobiphenyls C12 H8 Cl2	ng/kg	--	--	10700
Heptachlorobiphenyls C12 H3 Cl7	ng/kg	--	--	2060000
Hexachlorobiphenyls C12 H4 Cl6	ng/kg	--	--	3980000
Monochlorobiphenyls C12 H9 Cl	ng/kg	--	--	175
Nonachlorobiphenyls C12 HCl9	ng/kg	--	--	27900
Octachlorobiphenyl	ng/kg	--	--	461000
Pentachlorobiphenyl	ng/kg	--	--	4350000
Tetrachlorobiphenyl	ng/kg	--	--	1100000
Trichlorobiphenyl	ng/kg	--	--	58500
Aroclor-1016 (PCB-1016)	µg/kg	47.9 U	48.2 U	357 U
Aroclor-1221 (PCB-1221)	µg/kg	97.3 U	97.8 U	725 U

Table 3A

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

	Location ID: Sample Name: Sample Date: Depth:	SB-6-2018 SO-018876-060718-SAG-402 06/07/2018 1-1.5 ft bgs	SB-6-2018 SO-018876-060718-SAG-403 06/07/2018 1-1.5 ft bgs Duplicate	SB-7-2018 SO-018876-060718-SAG-401 06/07/2018 0-1 ft bgs
Parameters	Unit			
PCBs (Continued)				
Aroclor-1232 (PCB-1232)	µg/kg	47.9 U	48.2 U	357 U
Aroclor-1242 (PCB-1242)	µg/kg	47.9 U	48.2 U	357 U
Aroclor-1248 (PCB-1248)	µg/kg	47.9 U	48.2 U	357 U
Aroclor-1254 (PCB-1254)	µg/kg	112	149	1000
Aroclor-1260 (PCB-1260)	µg/kg	41.3 J	41.5 J	562
General Chemistry				
Percent moisture	%	32.1	31.6	54

Notes:

"--" - Not analyzed

ft bgs - Feet below ground surface

J - Estimated concentration

PCBs - Polychlorinated Biphenyls

U - Not detected at the associated reporting limit

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	MW-1	MW-2	MW-3	MW-4
Sample Name:	GW-018876-060418-SAG-001	GW-018876-060418-SDL-102	GW-018876-060618-SAG-010	GW-018876-060618-SAG-009
Sample Date:	06/04/2018	06/04/2018	06/06/2018	06/06/2018

Parameters	Unit		
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Volatile Organic Compounds

1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	41.3	4.1	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.7	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	126 J	1.4	1.0 U
1,2,4-Trimethylbenzene	µg/L	1.0 U	3.6	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	90.2 J	0.63 J	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	141 J	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	601	2.5	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	25.0 U	25.0 U	25.0 U	25.0 U
Benzene	µg/L	1.0 U	0.20 J	0.42 J	0.39 J
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
Carbon disulfide	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	142 J	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	4.7	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	MW-1	MW-2	MW-3	MW-4
Sample Name:	GW-018876-060418-SAG-001	GW-018876-060418-SDL-102	GW-018876-060618-SAG-010	GW-018876-060618-SAG-009
Sample Date:	06/04/2018	06/04/2018	06/06/2018	06/06/2018

Parameters	Unit		
Volatile Organic Compounds (Continued)			

Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	7.3	28.9	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	10.0 U	0.64 J	10.0 U	10.0 U
Methyl acetate	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Methyl cyclohexane	µg/L	10.0 U	3.3 J	10.0 U	10.0 U
Methyl tert butyl ether (MTBE)	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.2	44.7	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	0.57 J	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	3.6	10.8	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	3.4	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Vinyl chloride	µg/L	1.0 U	0.82 J	2.4	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U

PCBs

(PCB 209) Decachlorobiphenyl	pg/L	--	249 U	250 U	--
Dichlorobiphenyls C12 H8 Cl2	pg/L	--	528000	2900000	--
Heptachlorobiphenyls C12 H3 Cl7	pg/L	--	12900	750	--
Hexachlorobiphenyls C12 H4 Cl6	pg/L	--	39900	11400	--

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	MW-1	MW-2	MW-3	
Sample Name:	GW-018876-060418-SAG-001	GW-018876-060418-SDL-102	GW-018876-060618-SAG-010	GW-018876-060618-SAG-009
Sample Date:	06/04/2018	06/04/2018	06/06/2018	06/06/2018

Parameters	Unit		
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PCBs (Continued)

Monochlorobiphenyls C12 H9 Cl	pg/L	--	486000	301000	--
Nonachlorobiphenyls C12 HCl9	pg/L	--	249 U	250 U	--
Octachlorobiphenyl	pg/L	--	2350	250 U	--
Pentachlorobiphenyl	pg/L	--	127000	481000	--
Tetrachlorobiphenyl	pg/L	--	227000	5000000	--
Trichlorobiphenyl	pg/L	--	405000	4420000	--
Aroclor-1016 (PCB-1016)	µg/L	--	0.50 U	0.50 U	0.50 U
Aroclor-1221 (PCB-1221)	µg/L	--	0.50 U	0.50 U	0.50 U
Aroclor-1232 (PCB-1232)	µg/L	--	0.50 U	0.50 U	0.50 U
Aroclor-1242 (PCB-1242)	µg/L	--	0.50 U	7.3	0.50 U
Aroclor-1248 (PCB-1248)	µg/L	--	0.50 U	0.50 U	0.50 U
Aroclor-1254 (PCB-1254)	µg/L	--	0.50 U	0.50 U	0.89
Aroclor-1260 (PCB-1260)	µg/L	--	0.50 U	0.50 U	0.56

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	MW-5	MW-6	MW-7	MW-8D
Sample Name:	GW-018876-060418-SAG-002	GW-018876-060418-SDL-101	GW-018876-060518-SDL-103	GW-018876-060518-SAG-005
Sample Date:	06/04/2018	06/04/2018	06/05/2018	06/05/2018

Parameters	Unit	MW-5	MW-6	MW-7	MW-8D
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	0.61 J	1.0 U	24.2
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	7.8
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	2.6	3.4
1,2,4-Trimethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	19.4
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.2
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	3.0	3.7
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	25.0 U	25.0 U	25.0 U	25.0 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	0.60 J
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
Carbon disulfide	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	9.4
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	MW-5	MW-6	MW-7	
Sample Name:	GW-018876-060418-SAG-002	GW-018876-060418-SDL-101	GW-018876-060518-SDL-103	GW-018876-060518-SAG-005
Sample Date:	06/04/2018	06/04/2018	06/05/2018	06/05/2018

Parameters	Unit		
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Volatile Organic Compounds (Continued)

Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	6.0	1.0 U	42.1
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Methyl acetate	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Methyl cyclohexane	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Methyl tert butyl ether (MTBE)	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	35.4
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	5.6
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	15.9
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	38.6
Trifluorotrichloroethane (CFC-113)	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	3.1
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U

PCBs

(PCB 209) Decachlorobiphenyl	pg/L	--	--	--	249 U
Dichlorobiphenyls C12 H8 Cl2	pg/L	--	--	--	11600
Heptachlorobiphenyls C12 H3 Cl7	pg/L	--	--	--	249 U
Hexachlorobiphenyls C12 H4 Cl6	pg/L	--	--	--	249 U

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	MW-5	MW-6	MW-7	
Sample Name:	GW-018876-060418-SAG-002	GW-018876-060418-SDL-101	GW-018876-060518-SDL-103	GW-018876-060518-SAG-005
Sample Date:	06/04/2018	06/04/2018	06/05/2018	06/05/2018

Parameters	Unit
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PCBs (Continued)

Monochlorobiphenyls C12 H9 Cl	pg/L	--	--	--	3670
Nonachlorobiphenyls C12 HCl9	pg/L	--	--	--	249 U
Octachlorobiphenyl	pg/L	--	--	--	249 U
Pentachlorobiphenyl	pg/L	--	--	--	2910
Tetrachlorobiphenyl	pg/L	--	--	--	11600
Trichlorobiphenyl	pg/L	--	--	--	8610
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	0.50 U
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	0.50 U
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	0.50 U
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	0.50 U
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	0.50 U
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	0.50 U
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	0.50 U

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	MW-8R	MW-8R	MW-9	MW-10
Sample Name:	GW-018876-060518-SAG-006	GW-018876-060518-SAG-007	GW-018876-060618-SAG-008	GW-018876-060618-SDL-106
Sample Date:	06/05/2018	06/05/2018	06/06/2018	06/06/2018
		Duplicate		

Parameters	Unit	MW-8R	MW-8R	MW-9	MW-10
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.4	1.0	0.59 J	1.1
1,2,4-Trimethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	3.7
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	4.2	3.8	1.0 U	0.90 J
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	3.0
1,3-Dichlorobenzene	µg/L	12.2	11.3	1.0 U	3.0
1,4-Dichlorobenzene	µg/L	69.3	64.6	1.0 U	11.3
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	25.0 U	25.0 U	25.0 U	10.6 J
Benzene	µg/L	6.9	8.1	1.0 U	1.1
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
Carbon disulfide	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	59.3	57.8	1.0 U	4.7
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	MW-8R	MW-8R	MW-9	MW-10
Sample Name:	GW-018876-060518-SAG-006	GW-018876-060518-SAG-007	GW-018876-060618-SAG-008	GW-018876-060618-SDL-106
Sample Date:	06/05/2018	06/05/2018	06/06/2018	06/06/2018
		Duplicate		

Parameters	Unit	
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Volatile Organic Compounds (Continued)

Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	0.98 J
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	3.2 J	10.0 U	10.0 U	5.0 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	12.5
Isopropyl benzene	µg/L	3.6 J	4.1 J	10.0 U	16.2
Methyl acetate	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Methyl cyclohexane	µg/L	2.6 J	3.1 J	10.0 U	4.6 J
Methyl tert butyl ether (MTBE)	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	0.51 J
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U

PCBs

(PCB 209) Decachlorobiphenyl	pg/L	--	--	--	--
Dichlorobiphenyls C12 H8 Cl2	pg/L	--	--	--	--
Heptachlorobiphenyls C12 H3 Cl7	pg/L	--	--	--	--
Hexachlorobiphenyls C12 H4 Cl6	pg/L	--	--	--	--

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	MW-8R	MW-8R	MW-9
Sample Name:	GW-018876-060518-SAG-006	GW-018876-060518-SAG-007	GW-018876-060618-SAG-008
Sample Date:	06/05/2018	06/05/2018	06/06/2018
		Duplicate	

Parameters	Unit
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PCBs (Continued)

Monochlorobiphenyls C12 H9 Cl	pg/L	--	--	--	--
Nonachlorobiphenyls C12 HCl9	pg/L	--	--	--	--
Octachlorobiphenyl	pg/L	--	--	--	--
Pentachlorobiphenyl	pg/L	--	--	--	--
Tetrachlorobiphenyl	pg/L	--	--	--	--
Trichlorobiphenyl	pg/L	--	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	0.50 U	0.50 U	--	--
Aroclor-1221 (PCB-1221)	µg/L	0.50 U	0.50 U	--	--
Aroclor-1232 (PCB-1232)	µg/L	0.50 U	0.50 U	--	--
Aroclor-1242 (PCB-1242)	µg/L	0.50 U	0.50 U	--	--
Aroclor-1248 (PCB-1248)	µg/L	0.50 U	0.50 U	--	--
Aroclor-1254 (PCB-1254)	µg/L	0.50 U	0.50 U	--	--
Aroclor-1260 (PCB-1260)	µg/L	0.50 U	0.50 U	--	--

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	MW-11	MW-12	MW-12D	MW-13R
Sample Name:	GW-018876-060518-SDL-104	GW-018876-060418-SAG-004	GW-018876-060418-SAG-003	GW-018876-060518-SDL-105
Sample Date:	06/05/2018	06/04/2018	06/04/2018	06/05/2018

Parameters	Unit	MW-11	MW-12	MW-12D	MW-13R
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	6.2	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	2.4	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	0.57 J	45.9	28.1	1.0 U
1,2,4-Trimethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	0.64 J	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.1	1.3	1.0 U	0.75 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	25.0 U	9.7 J	25.0 U	25.0 U
Benzene	µg/L	1.0 U	0.29 J	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
Carbon disulfide	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	0.63 J	1.0 U	0.71 J
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	MW-11	MW-12	MW-12D	MW-13R
Sample Name:	GW-018876-060518-SDL-104	GW-018876-060418-SAG-004	GW-018876-060418-SAG-003	GW-018876-060518-SDL-105
Sample Date:	06/05/2018	06/04/2018	06/04/2018	06/05/2018

Parameters	Unit	MW-11	MW-12	MW-12D	MW-13R
Volatile Organic Compounds (Continued)					
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	18.0	1.6	3.2
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Methyl acetate	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Methyl cyclohexane	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Methyl tert butyl ether (MTBE)	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	85.0	5.3	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	15.1	2.3	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	37.9	2.7	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	10.0 U	10.0 U	10.0 U	10.0 U
Vinyl chloride	µg/L	1.0 U	0.89 J	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
PCBs					
(PCB 209) Decachlorobiphenyl	pg/L	--	245 U	261 U	--
Dichlorobiphenyls C12 H8 Cl2	pg/L	--	2700000	292000	--
Heptachlorobiphenyls C12 H3 Cl7	pg/L	--	3220	367000	--
Hexachlorobiphenyls C12 H4 Cl6	pg/L	--	111000	1030000	--

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	MW-11	MW-12	MW-12D	
Sample Name:	GW-018876-060518-SDL-104	GW-018876-060418-SAG-004	GW-018876-060418-SAG-003	GW-018876-060518-SDL-105
Sample Date:	06/05/2018	06/04/2018	06/04/2018	06/05/2018

Parameters	Unit	MW-11	MW-12	MW-12D	MW-13R
PCBs (Continued)					
Monochlorobiphenyls C12 H9 Cl	pg/L	--	779000	59000	--
Nonachlorobiphenyls C12 HCl9	pg/L	--	245 U	261 U	--
Octachlorobiphenyl	pg/L	--	245 U	15200	--
Pentachlorobiphenyl	pg/L	--	188000	423000	--
Tetrachlorobiphenyl	pg/L	--	466000	362000	--
Trichlorobiphenyl	pg/L	--	1360000	433000	--
Aroclor-1016 (PCB-1016)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor-1221 (PCB-1221)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor-1232 (PCB-1232)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor-1242 (PCB-1242)	µg/L	0.50 U	2.2	1.4	0.50 U
Aroclor-1248 (PCB-1248)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor-1254 (PCB-1254)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Aroclor-1260 (PCB-1260)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	RW-1	SD-1-2018	SD-2-2018
Sample Name:	GW-018876-060618-SDL-107	SW-018876-060718-SAG-201	SW-018876-060718-SAG-202
Sample Date:	06/06/2018	06/07/2018	06/07/2018

Parameters	Unit	RW-1	SD-1-2018	SD-2-2018
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.9	0.51 J	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	26.4	1.0 U	1.0 U
1,2,4-Trimethylbenzene	µg/L	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	4.3	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene	µg/L	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	9.1	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	21.7	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	6.0	5.0 U	5.0 U
Acetone	µg/L	25.0 U	25.0 U	25.0 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	2.0 U	2.0 U	2.0 U
Carbon disulfide	µg/L	10.0 U	10.0 U	10.0 U
Carbon tetrachloride	µg/L	10.9	1.0 U	1.0 U
Chlorobenzene	µg/L	7.7	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	RW-1	SD-1-2018	SD-2-2018
Sample Name:	GW-018876-060618-SDL-107	SW-018876-060718-SAG-201	SW-018876-060718-SAG-202
Sample Date:	06/06/2018	06/07/2018	06/07/2018

Parameters	Unit	RW-1	SD-1-2018	SD-2-2018
Volatile Organic Compounds (Continued)				
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	5.8	2.2	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	2.5 J	10.0 U	10.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	10.0 U	10.0 U	10.0 U
Methyl acetate	µg/L	10.0 U	10.0 U	10.0 U
Methyl cyclohexane	µg/L	10.0 U	10.0 U	10.0 U
Methyl tert butyl ether (MTBE)	µg/L	10.0 U	10.0 U	10.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	8.0	6.7	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	3.1	0.81 J	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	0.89 J	2.3	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	10.0 U	10.0 U	10.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U
PCBs				
(PCB 209) Decachlorobiphenyl	pg/L	271 U	254 U	244 U
Dichlorobiphenyls C12 H8 Cl2	pg/L	5770000	365 U	9980
Heptachlorobiphenyls C12 H3 Cl7	pg/L	147000	19000	78600
Hexachlorobiphenyls C12 H4 Cl6	pg/L	947000	76100	154000

Table 3B

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	RW-1	SD-1-2018	SD-2-2018
Sample Name:	GW-018876-060618-SDL-107	SW-018876-060718-SAG-201	SW-018876-060718-SAG-202
Sample Date:	06/06/2018	06/07/2018	06/07/2018

Parameters	Unit			
PCBs (Continued)				
Monochlorobiphenyls C12 H9 Cl	pg/L	618000	254 U	244 U
Nonachlorobiphenyls C12 HCl9	pg/L	271 U	254 U	1190
Octachlorobiphenyl	pg/L	7730	2650	18100
Pentachlorobiphenyl	pg/L	3810000	99800	218000
Tetrachlorobiphenyl	pg/L	6640000	14600	210000
Trichlorobiphenyl	pg/L	6810000	594	58700
Aroclor-1016 (PCB-1016)	µg/L	1.0 U	0.50 U	0.50 U
Aroclor-1221 (PCB-1221)	µg/L	1.0 U	0.50 U	0.50 U
Aroclor-1232 (PCB-1232)	µg/L	1.0 U	0.50 U	0.50 U
Aroclor-1242 (PCB-1242)	µg/L	15.1	0.50 U	0.50 U
Aroclor-1248 (PCB-1248)	µg/L	1.0 U	0.50 U	0.50 U
Aroclor-1254 (PCB-1254)	µg/L	4.3	0.50 U	0.50 U
Aroclor-1260 (PCB-1260)	µg/L	1.0 U	0.50 U	0.50 U

Notes:

"--" - Not analyzed

J - Estimated concentration

PCBs - Polychlorinated Biphenyls

U - Not detected at the associated reporting limit

Table 3C

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Location ID:	SD-1-2018	SD-2-2018
Sample Name:	SED-018876-060718-SAG-301	SED-018876-060718-SAG-302
Sample Date:	06/07/2018	06/07/2018

Parameters	Unit		
Volatile Organic Compounds			
1,1,1-Trichloroethane	µg/kg	9.6 U	10.4 U
1,1,2,2-Tetrachloroethane	µg/kg	9.6 U	10.4 U
1,1,2-Trichloroethane	µg/kg	9.6 U	10.4 U
1,1-Dichloroethane	µg/kg	9.6 U	10.4 U
1,1-Dichloroethene	µg/kg	9.6 U	10.4 U
1,2,4-Trichlorobenzene	µg/kg	9.6 U	10.4 U
1,2,4-Trimethylbenzene	µg/kg	9.6 U	10.4 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	9.6 U	10.4 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	9.6 U	10.4 U
1,2-Dichlorobenzene	µg/kg	9.6 U	10.4 U
1,2-Dichloroethane	µg/kg	9.6 U	10.4 U
1,2-Dichloropropane	µg/kg	9.6 U	10.4 U
1,3,5-Trimethylbenzene	µg/kg	9.6 U	10.4 U
1,3-Dichlorobenzene	µg/kg	9.6 U	10.4 U
1,4-Dichlorobenzene	µg/kg	9.6 U	10.4 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	95.9 U	8.2 J
2-Hexanone	µg/kg	48.0 U	52.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	48.0 U	52.1 U
Acetone	µg/kg	99.4 J	96.6 J
Benzene	µg/kg	9.6 U	10.4 U
Bromodichloromethane	µg/kg	9.6 U	10.4 U
Bromoform	µg/kg	9.6 U	10.4 U
Bromomethane (Methyl bromide)	µg/kg	9.6 U	10.4 U
Carbon disulfide	µg/kg	9.6 U	10.4 U
Carbon tetrachloride	µg/kg	9.6 U	10.4 U
Chlorobenzene	µg/kg	9.6 U	10.4 U
Chloroethane	µg/kg	9.6 U	10.4 U
Chloroform (Trichloromethane)	µg/kg	9.6 U	10.4 U
Chloromethane (Methyl chloride)	µg/kg	9.6 U	10.4 U
cis-1,2-Dichloroethene	µg/kg	9.6 U	10.4 U
cis-1,3-Dichloropropene	µg/kg	9.6 U	10.4 U
Cyclohexane	µg/kg	9.6 U	10.4 U
Dibromochloromethane	µg/kg	9.6 U	10.4 U
Dichlorodifluoromethane (CFC-12)	µg/kg	9.6 U	10.4 U
Ethylbenzene	µg/kg	9.6 U	10.4 U
Isopropyl benzene	µg/kg	9.6 U	10.4 U
Methyl acetate	µg/kg	3.4 J	5.7 J
Methyl cyclohexane	µg/kg	9.6 U	10.4 U
Methyl tert butyl ether (MTBE)	µg/kg	9.6 U	10.4 U
Methylene chloride	µg/kg	19.2 U	20.9 U
Styrene	µg/kg	9.6 U	10.4 U
Tetrachloroethene	µg/kg	0.75 J	10.4 U

Table 3C

**Analytical Results Summary
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018**

Volatile Organic Compounds (Continued)

Toluene	µg/kg	9.6 U	10.4 U
trans-1,2-Dichloroethene	µg/kg	9.6 U	10.4 U
trans-1,3-Dichloropropene	µg/kg	9.6 U	10.4 U
Trichloroethene	µg/kg	9.6 U	10.4 U
Trichlorofluoromethane (CFC-11)	µg/kg	9.6 U	10.4 U
Trifluorotrichloroethane (CFC-113)	µg/kg	48.0 U	52.1 U
Vinyl chloride	µg/kg	9.6 U	10.4 U
Xylenes (total)	µg/kg	9.6 U	10.4 U

PCBs

(PCB 209) Decachlorobiphenyl	ng/kg	873	975
Dichlorobiphenyls C12 H8 Cl2	ng/kg	28.2 U	44400
Heptachlorobiphenyls C12 H3 Cl7	ng/kg	12200	940000
Hexachlorobiphenyls C12 H4 Cl6	ng/kg	59200	1770000
Monochlorobiphenyls C12 H9 Cl	ng/kg	28.2 U	525
Nonachlorobiphenyls C12 HCl9	ng/kg	409	12500
Octachlorobiphenyl	ng/kg	1900	221000
Pentachlorobiphenyl	ng/kg	77400	2630000
Tetrachlorobiphenyl	ng/kg	7520	2280000
Trichlorobiphenyl	ng/kg	276	353000
Aroclor-1016 (PCB-1016)	µg/kg	216 U	228 U
Aroclor-1221 (PCB-1221)	µg/kg	438 U	462 U
Aroclor-1232 (PCB-1232)	µg/kg	216 U	228 U
Aroclor-1242 (PCB-1242)	µg/kg	216 U	332
Aroclor-1248 (PCB-1248)	µg/kg	216 U	228 U
Aroclor-1254 (PCB-1254)	µg/kg	216 U	642
Aroclor-1260 (PCB-1260)	µg/kg	216 U	388

General Chemistry

Percent moisture	%	24.1	28.2
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Notes:

J - Estimated concentration

PCBs - Polychlorinated Biphenyls

U - Not detected at the associated reporting limit

Table 4**Qualified Sample Results Due to Analyte Concentrations in the Method Blanks****VRP Investigation****CBS Corporation - Southland Circle Site****Atlanta, Georgia****May - June 2018**

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
PCB Homologs	Dichlorobiphenyls C12 H8 Cl2	6/8/2018	88.9	S-018876.052318-DJB-002	53.1	53.1 U	ng/kg
				S-018876.052318-DJB-003	101	101 U	ng/kg
	Tetrachlorobiphenyl	6/8/2018	51.3	S-018876.052318-DJB-003	193	193 U	ng/kg
	Dichlorobiphenyls C12 H8 Cl2	6/24/2018	322	SW-018876-060718-SAG-201	365	365 U	pg/L

Notes:

* - Blank result adjusted for sample factors where applicable

< - Not detected at the associated reporting limit

PCB - Polychlorinated Biphenyls

Table 5

Qualified Sample Data Due to Outlying of Surrogate Recoveries
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018

Parameter	Sample ID	Surrogate	Surrogate	Control Limits		Analyte	Qualified Result	Units
			% Recovery	% Recovery				
VOCs	S-018876.052318-DJB-001	Dibromofluoromethane	118	73-114	Acetone	24.7 J	µg/kg	
					Carbon disulfide	1.1 J	µg/kg	
					Methylene chloride	0.74 J	µg/kg	
	S-018876.052318-DJB-002	Dibromofluoromethane	118	73-114	Acetone	26.0 J	µg/kg	
					Carbon disulfide	1.1 J	µg/kg	
					Methylene chloride	0.81 J	µg/kg	

Notes:

J - Estimated concentration

VOCs - Volatile Organic Compounds

Table 6

Qualified Sample Results Due to Outlying Laboratory Control Sample Results
VRP Investigation
CBS Corporation - Southland Circle Site
Atlanta, Georgia
May - June 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	<u>Control Limits</u>		Associated Sample ID	Qualified Results	Units
PCB Homologs	(PCB 209) Decachlorobiphenyl	06/08/2018	156	50-150		S-018876.052318-DJB-003	864 J	ng/kg

Notes:

- LCS - Laboratory Control Sample
- J - Estimated concentration
- PCB - Polychlorinated Biphenyl

Table 7**Qualified Sample Results Due to Outlying MS/MSD Results****VRP Investigation****CBS Corporation - Southland Circle Site****Atlanta, Georgia****May - June 2018**

Parameter	Sample ID	Analyte	MS	MSD	RPD (percent)	Control Limits		Qualified Result	Units
			% Recovery	% Recovery		% Recovery	RPD		
VOCs	GW-018876-060418-SDL-102	1,2,4-Trichlorobenzene	-53	42	38	44-164	13	126 J	µg/L
		1,2-Dichlorobenzene	21	67	20	69-135	10	90.2 J	µg/L
		1,3-Dichlorobenzene	-28	69	32	68-135	10	141 J	µg/L
		Chlorobenzene	22	89	20	63-137	10	142 J	µg/L
	SED-018876-060718-SAG-301	Acetone	-18	-19	3	59-136	27	99.4 J	µg/kg

Notes:

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference

J - Estimated concentration

VOCs - Volatile Organic Compounds

June 12, 2018

Terefe Mazengia
GHD
3075 Breckinridge Blvd
Suite 470
Duluth, GA 30096

RE: Project: Southland Circle Site - 018876
Pace Project No.: 265427

Dear Terefe Mazengia:

Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Paul McMahon, GHD



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Southland Circle Site - 018876
Pace Project No.: 265427

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Southland Circle Site - 018876
Pace Project No.: 265427

Lab ID	Sample ID	Matrix	Date Collected	Date Received
265427001	S-018876.052318-DJB-001	Solid	05/23/18 11:00	05/25/18 15:05
265427002	S-018876.052318-DJB-002	Solid	05/23/18 11:15	05/25/18 15:05
265427003	S-018876.052318-DJB-003	Solid	05/23/18 11:30	05/25/18 15:05
265427004	S-018876.052318-DJB-004	Solid	05/23/18 11:45	05/25/18 15:05

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SAMPLE ANALYTE COUNT

Project: Southland Circle Site - 018876
 Pace Project No.: 265427

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
265427001	S-018876.052318-DJB-001	EPA 8082A	SFI	8	PASI-GA
		EPA 8260B	JHG	54	PASI-GA
		Pace SOP #204	JPT	1	PASI-GA
265427002	S-018876.052318-DJB-002	EPA 8082A	SFI	8	PASI-GA
		EPA 8260B	JHG	54	PASI-GA
		Pace SOP #204	JPT	1	PASI-GA
265427003	S-018876.052318-DJB-003	EPA 8082A	SFI	8	PASI-GA
		Pace SOP #204	JPT	1	PASI-GA
265427004	S-018876.052318-DJB-004	EPA 8082A	SFI	8	PASI-GA
		Pace SOP #204	JPT	1	PASI-GA

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265427

Sample: S-018876.052318-DJB-001 Lab ID: 265427001 Collected: 05/23/18 11:00 Received: 05/25/18 15:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report		DF	Prepared	Analyzed	CAS No.	Qual
			Limit	MDL					
8082 GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	208	34.0	5	05/30/18 15:00	05/31/18 15:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	422	208	5	05/30/18 15:00	05/31/18 15:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	208	208	5	05/30/18 15:00	05/31/18 15:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	208	208	5	05/30/18 15:00	05/31/18 15:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	208	208	5	05/30/18 15:00	05/31/18 15:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	208	208	5	05/30/18 15:00	05/31/18 15:48	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	208	25.8	5	05/30/18 15:00	05/31/18 15:48	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	70	%.	12-139		5	05/30/18 15:00	05/31/18 15:48	2051-24-3	
8260 MSV 5035 Analytical Method: EPA 8260B Preparation Method: EPA 5035									
Acetone	24.7J	ug/kg	96.7	2.4	1	05/30/18 12:56	05/30/18 16:02	67-64-1	
Benzene	ND	ug/kg	9.7	0.16	1	05/30/18 12:56	05/30/18 16:02	71-43-2	
Bromodichloromethane	ND	ug/kg	9.7	0.25	1	05/30/18 12:56	05/30/18 16:02	75-27-4	
Bromoform	ND	ug/kg	9.7	0.66	1	05/30/18 12:56	05/30/18 16:02	75-25-2	
Bromomethane	ND	ug/kg	9.7	0.77	1	05/30/18 12:56	05/30/18 16:02	74-83-9	
2-Butanone (MEK)	ND	ug/kg	96.7	1.3	1	05/30/18 12:56	05/30/18 16:02	78-93-3	
Carbon disulfide	1.1J	ug/kg	9.7	0.27	1	05/30/18 12:56	05/30/18 16:02	75-15-0	
Carbon tetrachloride	ND	ug/kg	9.7	0.47	1	05/30/18 12:56	05/30/18 16:02	56-23-5	
Chlorobenzene	ND	ug/kg	9.7	0.67	1	05/30/18 12:56	05/30/18 16:02	108-90-7	
Chloroethane	ND	ug/kg	9.7	0.48	1	05/30/18 12:56	05/30/18 16:02	75-00-3	
Chloroform	ND	ug/kg	9.7	0.16	1	05/30/18 12:56	05/30/18 16:02	67-66-3	
Chloromethane	ND	ug/kg	9.7	0.18	1	05/30/18 12:56	05/30/18 16:02	74-87-3	
Cyclohexane	ND	ug/kg	9.7	0.51	1	05/30/18 12:56	05/30/18 16:02	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	9.7	0.39	1	05/30/18 12:56	05/30/18 16:02	96-12-8	
Dibromochloromethane	ND	ug/kg	9.7	0.097	1	05/30/18 12:56	05/30/18 16:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	9.7	0.29	1	05/30/18 12:56	05/30/18 16:02	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	9.7	0.27	1	05/30/18 12:56	05/30/18 16:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	9.7	0.20	1	05/30/18 12:56	05/30/18 16:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	9.7	0.22	1	05/30/18 12:56	05/30/18 16:02	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.7	0.31	1	05/30/18 12:56	05/30/18 16:02	75-71-8	
1,1-Dichloroethane	ND	ug/kg	9.7	0.40	1	05/30/18 12:56	05/30/18 16:02	75-34-3	
1,2-Dichloroethane	ND	ug/kg	9.7	0.27	1	05/30/18 12:56	05/30/18 16:02	107-06-2	
1,1-Dichloroethene	ND	ug/kg	9.7	0.26	1	05/30/18 12:56	05/30/18 16:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	9.7	0.46	1	05/30/18 12:56	05/30/18 16:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	9.7	0.24	1	05/30/18 12:56	05/30/18 16:02	156-60-5	
1,2-Dichloropropane	ND	ug/kg	9.7	0.34	1	05/30/18 12:56	05/30/18 16:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	9.7	0.30	1	05/30/18 12:56	05/30/18 16:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	9.7	0.30	1	05/30/18 12:56	05/30/18 16:02	10061-02-6	
Ethylbenzene	ND	ug/kg	9.7	0.18	1	05/30/18 12:56	05/30/18 16:02	100-41-4	
2-Hexanone	ND	ug/kg	48.3	0.69	1	05/30/18 12:56	05/30/18 16:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	9.7	0.20	1	05/30/18 12:56	05/30/18 16:02	98-82-8	
Methyl acetate	ND	ug/kg	9.7	1.1	1	05/30/18 12:56	05/30/18 16:02	79-20-9	
Methylcyclohexane	ND	ug/kg	9.7	0.62	1	05/30/18 12:56	05/30/18 16:02	108-87-2	
Methylene Chloride	0.74J	ug/kg	19.3	0.55	1	05/30/18 12:56	05/30/18 16:02	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265427

Sample: S-018876.052318-DJB-001 Lab ID: 265427001 Collected: 05/23/18 11:00 Received: 05/25/18 15:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit			DF	Prepared	Analyzed	CAS No.	Qual
			MDL							
8260 MSV 5035	Analytical Method: EPA 8260B Preparation Method: EPA 5035									
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.3	0.65	1	05/30/18 12:56	05/30/18 16:02	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	9.7	0.57	1	05/30/18 12:56	05/30/18 16:02	1634-04-4		
Styrene	ND	ug/kg	9.7	0.18	1	05/30/18 12:56	05/30/18 16:02	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/kg	9.7	0.32	1	05/30/18 12:56	05/30/18 16:02	79-34-5		
Tetrachloroethene	ND	ug/kg	9.7	0.34	1	05/30/18 12:56	05/30/18 16:02	127-18-4		
Toluene	ND	ug/kg	9.7	0.47	1	05/30/18 12:56	05/30/18 16:02	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/kg	9.7	0.30	1	05/30/18 12:56	05/30/18 16:02	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	9.7	0.47	1	05/30/18 12:56	05/30/18 16:02	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	9.7	0.20	1	05/30/18 12:56	05/30/18 16:02	79-00-5		
Trichloroethene	ND	ug/kg	9.7	0.24	1	05/30/18 12:56	05/30/18 16:02	79-01-6		
Trichlorofluoromethane	ND	ug/kg	9.7	0.31	1	05/30/18 12:56	05/30/18 16:02	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	48.3	0.90	1	05/30/18 12:56	05/30/18 16:02	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/kg	9.7	0.28	1	05/30/18 12:56	05/30/18 16:02	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	9.7	0.11	1	05/30/18 12:56	05/30/18 16:02	108-67-8		
Vinyl chloride	ND	ug/kg	9.7	0.14	1	05/30/18 12:56	05/30/18 16:02	75-01-4		
Xylene (Total)	ND	ug/kg	9.7	0.53	1	05/30/18 12:56	05/30/18 16:02	1330-20-7		
Surrogates										
Dibromofluoromethane (S)	118	%.	73-114		1	05/30/18 12:56	05/30/18 16:02	1868-53-7	S3	
Toluene-d8 (S)	108	%.	85-109		1	05/30/18 12:56	05/30/18 16:02	2037-26-5		
4-Bromofluorobenzene (S)	123	%.	77-124		1	05/30/18 12:56	05/30/18 16:02	460-00-4		
1,2-Dichloroethane-d4 (S)	127	%.	69-133		1	05/30/18 12:56	05/30/18 16:02	17060-07-0		
Percent Moisture	Analytical Method: Pace SOP #204									
Percent Moisture	20.7	%	0.10	0.10	1			05/29/18 11:37		

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265427

Sample: S-018876.052318-DJB-002 Lab ID: 265427002 Collected: 05/23/18 11:15 Received: 05/25/18 15:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report		DF	Prepared	Analyzed	CAS No.	Qual
			Limit	MDL					
8082 GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	51.3	8.4	1	05/30/18 15:00	05/31/18 16:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	104	51.3	1	05/30/18 15:00	05/31/18 16:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	51.3	51.3	1	05/30/18 15:00	05/31/18 16:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	51.3	51.3	1	05/30/18 15:00	05/31/18 16:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	51.3	51.3	1	05/30/18 15:00	05/31/18 16:09	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	51.3	51.3	1	05/30/18 15:00	05/31/18 16:09	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	51.3	6.4	1	05/30/18 15:00	05/31/18 16:09	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	55	%.	12-139		1	05/30/18 15:00	05/31/18 16:09	2051-24-3	
8260 MSV 5035 Analytical Method: EPA 8260B Preparation Method: EPA 5035									
Acetone	26.0J	ug/kg	119	3.0	1	05/30/18 12:56	05/30/18 16:27	67-64-1	
Benzene	ND	ug/kg	11.9	0.20	1	05/30/18 12:56	05/30/18 16:27	71-43-2	
Bromodichloromethane	ND	ug/kg	11.9	0.31	1	05/30/18 12:56	05/30/18 16:27	75-27-4	
Bromoform	ND	ug/kg	11.9	0.81	1	05/30/18 12:56	05/30/18 16:27	75-25-2	
Bromomethane	ND	ug/kg	11.9	0.95	1	05/30/18 12:56	05/30/18 16:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	119	1.5	1	05/30/18 12:56	05/30/18 16:27	78-93-3	
Carbon disulfide	1.1J	ug/kg	11.9	0.33	1	05/30/18 12:56	05/30/18 16:27	75-15-0	
Carbon tetrachloride	ND	ug/kg	11.9	0.58	1	05/30/18 12:56	05/30/18 16:27	56-23-5	
Chlorobenzene	ND	ug/kg	11.9	0.82	1	05/30/18 12:56	05/30/18 16:27	108-90-7	
Chloroethane	ND	ug/kg	11.9	0.60	1	05/30/18 12:56	05/30/18 16:27	75-00-3	
Chloroform	ND	ug/kg	11.9	0.20	1	05/30/18 12:56	05/30/18 16:27	67-66-3	
Chloromethane	ND	ug/kg	11.9	0.23	1	05/30/18 12:56	05/30/18 16:27	74-87-3	
Cyclohexane	ND	ug/kg	11.9	0.63	1	05/30/18 12:56	05/30/18 16:27	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/kg	11.9	0.48	1	05/30/18 12:56	05/30/18 16:27	96-12-8	
Dibromochloromethane	ND	ug/kg	11.9	0.12	1	05/30/18 12:56	05/30/18 16:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	11.9	0.36	1	05/30/18 12:56	05/30/18 16:27	106-93-4	
1,2-Dichlorobenzene	ND	ug/kg	11.9	0.33	1	05/30/18 12:56	05/30/18 16:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	11.9	0.25	1	05/30/18 12:56	05/30/18 16:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	11.9	0.27	1	05/30/18 12:56	05/30/18 16:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.9	0.38	1	05/30/18 12:56	05/30/18 16:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	11.9	0.49	1	05/30/18 12:56	05/30/18 16:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	11.9	0.33	1	05/30/18 12:56	05/30/18 16:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	11.9	0.32	1	05/30/18 12:56	05/30/18 16:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	11.9	0.57	1	05/30/18 12:56	05/30/18 16:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	11.9	0.30	1	05/30/18 12:56	05/30/18 16:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	11.9	0.42	1	05/30/18 12:56	05/30/18 16:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	11.9	0.37	1	05/30/18 12:56	05/30/18 16:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	11.9	0.37	1	05/30/18 12:56	05/30/18 16:27	10061-02-6	
Ethylbenzene	ND	ug/kg	11.9	0.23	1	05/30/18 12:56	05/30/18 16:27	100-41-4	
2-Hexanone	ND	ug/kg	59.5	0.85	1	05/30/18 12:56	05/30/18 16:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	11.9	0.25	1	05/30/18 12:56	05/30/18 16:27	98-82-8	
Methyl acetate	ND	ug/kg	11.9	1.3	1	05/30/18 12:56	05/30/18 16:27	79-20-9	
Methylcyclohexane	ND	ug/kg	11.9	0.76	1	05/30/18 12:56	05/30/18 16:27	108-87-2	
Methylene Chloride	0.81J	ug/kg	23.8	0.68	1	05/30/18 12:56	05/30/18 16:27	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265427

Sample: S-018876.052318-DJB-002 Lab ID: 265427002 Collected: 05/23/18 11:15 Received: 05/25/18 15:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit			DF	Prepared	Analyzed	CAS No.	Qual
			MDL							
8260 MSV 5035	Analytical Method: EPA 8260B Preparation Method: EPA 5035									
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	59.5	0.80	1	05/30/18 12:56	05/30/18 16:27	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	11.9	0.70	1	05/30/18 12:56	05/30/18 16:27	1634-04-4		
Styrene	ND	ug/kg	11.9	0.23	1	05/30/18 12:56	05/30/18 16:27	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/kg	11.9	0.39	1	05/30/18 12:56	05/30/18 16:27	79-34-5		
Tetrachloroethene	ND	ug/kg	11.9	0.42	1	05/30/18 12:56	05/30/18 16:27	127-18-4		
Toluene	ND	ug/kg	11.9	0.58	1	05/30/18 12:56	05/30/18 16:27	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/kg	11.9	0.37	1	05/30/18 12:56	05/30/18 16:27	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	11.9	0.58	1	05/30/18 12:56	05/30/18 16:27	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	11.9	0.25	1	05/30/18 12:56	05/30/18 16:27	79-00-5		
Trichloroethene	ND	ug/kg	11.9	0.30	1	05/30/18 12:56	05/30/18 16:27	79-01-6		
Trichlorofluoromethane	ND	ug/kg	11.9	0.38	1	05/30/18 12:56	05/30/18 16:27	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	59.5	1.1	1	05/30/18 12:56	05/30/18 16:27	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/kg	11.9	0.35	1	05/30/18 12:56	05/30/18 16:27	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	11.9	0.13	1	05/30/18 12:56	05/30/18 16:27	108-67-8		
Vinyl chloride	ND	ug/kg	11.9	0.18	1	05/30/18 12:56	05/30/18 16:27	75-01-4		
Xylene (Total)	ND	ug/kg	11.9	0.65	1	05/30/18 12:56	05/30/18 16:27	1330-20-7		
Surrogates										
Dibromofluoromethane (S)	118	%.	73-114			1	05/30/18 12:56	05/30/18 16:27	1868-53-7	S3
Toluene-d8 (S)	105	%.	85-109			1	05/30/18 12:56	05/30/18 16:27	2037-26-5	
4-Bromofluorobenzene (S)	110	%.	77-124			1	05/30/18 12:56	05/30/18 16:27	460-00-4	
1,2-Dichloroethane-d4 (S)	130	%.	69-133			1	05/30/18 12:56	05/30/18 16:27	17060-07-0	
Percent Moisture	Analytical Method: Pace SOP #204									
Percent Moisture	35.7	%	0.10	0.10	1					05/29/18 11:38

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265427

Sample: S-018876.052318-DJB-003 Lab ID: 265427003 Collected: 05/23/18 11:30 Received: 05/25/18 15:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
			201	32.9						
8082 GCS PCB	Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	201	32.9	5	05/30/18 15:00	05/31/18 16:29	12674-11-2		
PCB-1221 (Aroclor 1221)	ND	ug/kg	409	201	5	05/30/18 15:00	05/31/18 16:29	11104-28-2		
PCB-1232 (Aroclor 1232)	ND	ug/kg	201	201	5	05/30/18 15:00	05/31/18 16:29	11141-16-5		
PCB-1242 (Aroclor 1242)	ND	ug/kg	201	201	5	05/30/18 15:00	05/31/18 16:29	53469-21-9		
PCB-1248 (Aroclor 1248)	ND	ug/kg	201	201	5	05/30/18 15:00	05/31/18 16:29	12672-29-6		
PCB-1254 (Aroclor 1254)	ND	ug/kg	201	201	5	05/30/18 15:00	05/31/18 16:29	11097-69-1		
PCB-1260 (Aroclor 1260)	ND	ug/kg	201	25.0	5	05/30/18 15:00	05/31/18 16:29	11096-82-5		
Surrogates										
Decachlorobiphenyl (S)	61	%.	12-139		5	05/30/18 15:00	05/31/18 16:29	2051-24-3		
Percent Moisture	Analytical Method: Pace SOP #204									
Percent Moisture	18.3	%	0.10	0.10	1			05/29/18 11:38		

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265427

Sample: S-018876.052318-DJB-004 Lab ID: 265427004 Collected: 05/23/18 11:45 Received: 05/25/18 15:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report		DF	Prepared	Analyzed	CAS No.	Qual
			Limit	MDL					
8082 GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	41.2	6.7	1	05/30/18 15:00	05/31/18 16:50	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	83.6	41.2	1	05/30/18 15:00	05/31/18 16:50	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	41.2	41.2	1	05/30/18 15:00	05/31/18 16:50	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	41.2	41.2	1	05/30/18 15:00	05/31/18 16:50	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	41.2	41.2	1	05/30/18 15:00	05/31/18 16:50	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	41.2	41.2	1	05/30/18 15:00	05/31/18 16:50	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	41.2	5.1	1	05/30/18 15:00	05/31/18 16:50	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	54	%.	12-139		1	05/30/18 15:00	05/31/18 16:50	2051-24-3	
Percent Moisture Analytical Method: Pace SOP #204									
Percent Moisture	20.1	%	0.10	0.10	1			05/29/18 11:39	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265427

QC Batch:	6977	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 5035	Analysis Description:	8260 MSV 5035 Low
Associated Lab Samples:	265427001, 265427002		

METHOD BLANK: 33002 Matrix: Solid

Associated Lab Samples: 265427001, 265427002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	10.0	0.49	05/30/18 15:38	
1,1,2,2-Tetrachloroethane	ug/kg	ND	10.0	0.33	05/30/18 15:38	
1,1,2-Trichloroethane	ug/kg	ND	10.0	0.21	05/30/18 15:38	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	50.0	0.93	05/30/18 15:38	
1,1-Dichloroethane	ug/kg	ND	10.0	0.41	05/30/18 15:38	
1,1-Dichloroethene	ug/kg	ND	10.0	0.27	05/30/18 15:38	
1,2,4-Trichlorobenzene	ug/kg	ND	10.0	0.31	05/30/18 15:38	
1,2,4-Trimethylbenzene	ug/kg	ND	10.0	0.29	05/30/18 15:38	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	0.40	05/30/18 15:38	
1,2-Dibromoethane (EDB)	ug/kg	ND	10.0	0.30	05/30/18 15:38	
1,2-Dichlorobenzene	ug/kg	ND	10.0	0.28	05/30/18 15:38	
1,2-Dichloroethane	ug/kg	ND	10.0	0.28	05/30/18 15:38	
1,2-Dichloropropane	ug/kg	ND	10.0	0.35	05/30/18 15:38	
1,3,5-Trimethylbenzene	ug/kg	ND	10.0	0.11	05/30/18 15:38	
1,3-Dichlorobenzene	ug/kg	ND	10.0	0.21	05/30/18 15:38	
1,4-Dichlorobenzene	ug/kg	ND	10.0	0.23	05/30/18 15:38	
2-Butanone (MEK)	ug/kg	ND	100	1.3	05/30/18 15:38	
2-Hexanone	ug/kg	ND	50.0	0.71	05/30/18 15:38	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	0.67	05/30/18 15:38	
Acetone	ug/kg	ND	100	2.5	05/30/18 15:38	
Benzene	ug/kg	ND	10.0	0.17	05/30/18 15:38	
Bromodichloromethane	ug/kg	ND	10.0	0.26	05/30/18 15:38	
Bromoform	ug/kg	ND	10.0	0.68	05/30/18 15:38	
Bromomethane	ug/kg	ND	10.0	0.80	05/30/18 15:38	
Carbon disulfide	ug/kg	ND	10.0	0.28	05/30/18 15:38	
Carbon tetrachloride	ug/kg	ND	10.0	0.49	05/30/18 15:38	
Chlorobenzene	ug/kg	ND	10.0	0.69	05/30/18 15:38	
Chloroethane	ug/kg	ND	10.0	0.50	05/30/18 15:38	
Chloroform	ug/kg	ND	10.0	0.17	05/30/18 15:38	
Chloromethane	ug/kg	ND	10.0	0.19	05/30/18 15:38	
cis-1,2-Dichloroethene	ug/kg	ND	10.0	0.48	05/30/18 15:38	
cis-1,3-Dichloropropene	ug/kg	ND	10.0	0.31	05/30/18 15:38	
Cyclohexane	ug/kg	ND	10.0	0.53	05/30/18 15:38	
Dibromochloromethane	ug/kg	ND	10.0	0.10	05/30/18 15:38	
Dichlorodifluoromethane	ug/kg	ND	10.0	0.32	05/30/18 15:38	
Ethylbenzene	ug/kg	ND	10.0	0.19	05/30/18 15:38	
Isopropylbenzene (Cumene)	ug/kg	ND	10.0	0.21	05/30/18 15:38	
Methyl acetate	ug/kg	ND	10.0	1.1	05/30/18 15:38	
Methyl-tert-butyl ether	ug/kg	ND	10.0	0.59	05/30/18 15:38	
Methylcyclohexane	ug/kg	ND	10.0	0.64	05/30/18 15:38	
Methylene Chloride	ug/kg	ND	20.0	0.57	05/30/18 15:38	

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265427

METHOD BLANK: 33002

Matrix: Solid

Associated Lab Samples: 265427001, 265427002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Styrene	ug/kg	ND	10.0	0.19	05/30/18 15:38	
Tetrachloroethene	ug/kg	ND	10.0	0.35	05/30/18 15:38	
Toluene	ug/kg	ND	10.0	0.49	05/30/18 15:38	
trans-1,2-Dichloroethene	ug/kg	ND	10.0	0.25	05/30/18 15:38	
trans-1,3-Dichloropropene	ug/kg	ND	10.0	0.31	05/30/18 15:38	
Trichloroethene	ug/kg	ND	10.0	0.25	05/30/18 15:38	
Trichlorofluoromethane	ug/kg	ND	10.0	0.32	05/30/18 15:38	
Vinyl chloride	ug/kg	ND	10.0	0.15	05/30/18 15:38	
Xylene (Total)	ug/kg	ND	10.0	0.55	05/30/18 15:38	
1,2-Dichloroethane-d4 (S)	%.	115	69-133		05/30/18 15:38	
4-Bromofluorobenzene (S)	%.	110	77-124		05/30/18 15:38	
Dibromofluoromethane (S)	%.	112	73-114		05/30/18 15:38	
Toluene-d8 (S)	%.	108	85-109		05/30/18 15:38	

LABORATORY CONTROL SAMPLE: 33003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	55.2	110	71-149	
1,1,2,2-Tetrachloroethane	ug/kg	50	53.4	107	70-134	
1,1,2-Trichloroethane	ug/kg	50	56.0	112	74-139	
1,1-Dichloroethane	ug/kg	50	54.2	108	81-140	
1,1-Dichloroethene	ug/kg	50	53.3	107	68-150	
1,2,4-Trichlorobenzene	ug/kg	50	53.9	108	49-147	
1,2,4-Trimethylbenzene	ug/kg	50	50.3	101	64-137	
1,2-Dibromo-3-chloropropane	ug/kg	50	49.2	98	80-134	
1,2-Dibromoethane (EDB)	ug/kg	50	54.5	109	70-143	
1,2-Dichlorobenzene	ug/kg	50	51.0	102	59-162	
1,2-Dichloroethane	ug/kg	50	54.2	108	69-135	
1,2-Dichloropropane	ug/kg	50	55.1	110	68-147	
1,3,5-Trimethylbenzene	ug/kg	50	51.0	102	68-138	
1,3-Dichlorobenzene	ug/kg	50	52.5	105	67-152	
1,4-Dichlorobenzene	ug/kg	50	51.9	104	72-138	
2-Butanone (MEK)	ug/kg	100	107	107	52-163	
2-Hexanone	ug/kg	100	107	107	60-186	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	110	110	80-129	
Acetone	ug/kg	100	104	104	52-160	
Benzene	ug/kg	50	52.9	106	70-141	
Bromodichloromethane	ug/kg	50	56.6	113	68-125	
Bromoform	ug/kg	50	51.4	103	65-140	
Bromomethane	ug/kg	50	49.8	100	41-148	
Carbon disulfide	ug/kg	100	100	100	72-138	
Carbon tetrachloride	ug/kg	50	52.0	104	57-146	
Chlorobenzene	ug/kg	50	51.2	102	65-133	
Chloroethane	ug/kg	50	59.1	118	48-143	

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265427

LABORATORY CONTROL SAMPLE: 33003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/kg	50	55.0	110	72-138	
Chloromethane	ug/kg	50	56.2	112	41-147	
cis-1,2-Dichloroethene	ug/kg	50	51.3	103	71-142	
cis-1,3-Dichloropropene	ug/kg	50	55.9	112	69-129	
Dibromochloromethane	ug/kg	50	54.4	109	64-122	
Dichlorodifluoromethane	ug/kg	50	49.6	99	18-147	
Ethylbenzene	ug/kg	50	51.8	104	70-143	
Isopropylbenzene (Cumene)	ug/kg	50	53.2	106	65-140	
Methyl-tert-butyl ether	ug/kg	100	108	108	80-126	
Methylene Chloride	ug/kg	50	49.1	98	71-136	
Styrene	ug/kg	50	54.9	110	68-134	
Tetrachloroethene	ug/kg	50	46.6	93	59-144	
Toluene	ug/kg	50	51.5	103	62-142	
trans-1,2-Dichloroethene	ug/kg	50	54.9	110	71-138	
trans-1,3-Dichloropropene	ug/kg	50	57.5	115	68-131	
Trichloroethene	ug/kg	50	50.4	101	65-152	
Trichlorofluoromethane	ug/kg	50	53.1	106	64-133	
Vinyl chloride	ug/kg	50	55.0	110	53-141	
Xylene (Total)	ug/kg	150	156	104	61-122	
1,2-Dichloroethane-d4 (S)	%.			113	69-133	
4-Bromofluorobenzene (S)	%.			104	77-124	
Dibromofluoromethane (S)	%.			117	73-114 S0	
Toluene-d8 (S)	%.			108	85-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33004
33005

Parameter	Units	265427001		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
		Result	Spike Conc.	Spike Conc.	MS Result					
1,1,1-Trichloroethane	ug/kg	ND	65	65.4	76.5	78.1	118	119	42-146	2 25
1,1,2,2-Tetrachloroethane	ug/kg	ND	65	65.4	59.8	62.8	92	96	25-144	5 18
1,1,2-Trichloroethane	ug/kg	ND	65	65.4	66.3	68.5	102	105	52-130	3 26
1,1-Dichloroethane	ug/kg	ND	65	65.4	75.9	77.1	117	118	52-145	2 24
1,1-Dichloroethene	ug/kg	ND	65	65.4	76.8	77.5	118	118	39-154	1 27
1,2,4-Trichlorobenzene	ug/kg	ND	65	65.4	62.5	57.4	96	88	21-130	9 28
1,2,4-Trimethylbenzene	ug/kg	ND	65	65.4	63.8	61.4	98	94	13-152	4 31
1,2-Dibromo-3-chloropropane	ug/kg	ND	65	65.4	51.3	52.6	79	80	42-120	2 81
1,2-Dibromoethane (EDB)	ug/kg	ND	65	65.4	62.4	66.1	96	101	39-139	6 29
1,2-Dichlorobenzene	ug/kg	ND	65	65.4	65.8	65.0	101	99	10-182	1 64
1,2-Dichloroethane	ug/kg	ND	65	65.4	64.8	67.3	100	103	58-118	4 23
1,2-Dichloropropane	ug/kg	ND	65	65.4	70.4	73.5	108	112	51-136	4 24
1,3,5-Trimethylbenzene	ug/kg	ND	65	65.4	71.9	68.9	111	105	22-146	4 31
1,3-Dichlorobenzene	ug/kg	ND	65	65.4	70.2	67.0	108	102	15-161	5 42
1,4-Dichlorobenzene	ug/kg	ND	65	65.4	69.2	66.5	107	102	15-164	4 36
2-Butanone (MEK)	ug/kg	ND	130	131	108J	111J	83	85	22-158	30

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265427

Parameter	Units	265427001		MS		MSD		33005				
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual	
2-Hexanone	ug/kg	ND	130	131	103	109	79	84	10-198	6	50	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	130	131	100	112	77	85	29-135	11	33	
Acetone	ug/kg	24.7J	130	131	126J	124J	78	76	59-136		27	
Benzene	ug/kg	ND	65	65.4	71.3	73.8	110	113	42-140	3	25	
Bromodichloromethane	ug/kg	ND	65	65.4	68.7	71.9	106	110	39-123	5	24	
Bromoform	ug/kg	ND	65	65.4	55.7	60.2	86	92	30-136	8	22	
Bromomethane	ug/kg	ND	65	65.4	63.1	68.4	97	105	10-164	8	31	
Carbon disulfide	ug/kg	1.1J	130	131	134	136	102	103	55-135	2	24	
Carbon tetrachloride	ug/kg	ND	65	65.4	73.2	76.7	113	117	33-136	5	27	
Chlorobenzene	ug/kg	ND	65	65.4	68.2	68.2	105	104	28-144	0	31	
Chloroethane	ug/kg	ND	65	65.4	72.7	72.5	112	111	10-163	0	30	
Chloroform	ug/kg	ND	65	65.4	72.4	74.4	111	114	52-131	3	23	
Chloromethane	ug/kg	ND	65	65.4	78.3	77.9	120	119	28-149	0	28	
cis-1,2-Dichloroethene	ug/kg	ND	65	65.4	68.2	69.7	105	106	50-134	2	23	
cis-1,3-Dichloropropene	ug/kg	ND	65	65.4	67.4	71.1	104	109	39-125	5	28	
Dibromochloromethane	ug/kg	ND	65	65.4	61.2	66.9	94	102	32-118	9	29	
Dichlorodifluoromethane	ug/kg	ND	65	65.4	59.0	57.1	91	87	10-158	3	44	
Ethylbenzene	ug/kg	ND	65	65.4	71.0	70.2	109	107	13-164	1	33	
Isopropylbenzene (Cumene)	ug/kg	ND	65	65.4	66.3	65.7	102	100	13-156	1	33	
Methyl-tert-butyl ether	ug/kg	ND	130	131	125	134	96	102	73-131	7	36	
Methylene Chloride	ug/kg	0.74J	65	65.4	67.3	68.9	102	104	53-138	2	26	
Styrene	ug/kg	ND	65	65.4	73.4	72.9	113	111	16-151	1	33	
Tetrachloroethene	ug/kg	ND	65	65.4	61.5	60.7	95	93	33-141	1	32	
Toluene	ug/kg	ND	65	65.4	70.4	71.7	108	110	32-145	2	31	
trans-1,2-Dichloroethene	ug/kg	ND	65	65.4	76.0	77.5	117	118	43-144	2	26	
trans-1,3-Dichloropropene	ug/kg	ND	65	65.4	67.7	71.1	104	109	30-130	5	33	
Trichloroethene	ug/kg	ND	65	65.4	66.9	65.8	103	101	16-172	2	30	
Trichlorofluoromethane	ug/kg	ND	65	65.4	70.2	69.9	108	107	14-149	0	32	
Vinyl chloride	ug/kg	ND	65	65.4	72.0	71.5	111	109	40-140	1	28	
Xylene (Total)	ug/kg	ND	195	197	215	212	110	108	19-120	1	28	
1,2-Dichloroethane-d4 (S)	%						106	107	69-133			
4-Bromofluorobenzene (S)	%						108	103	77-124			
Dibromofluoromethane (S)	%						113	114	73-114			
Toluene-d8 (S)	%						111	107	85-109		S0	

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265427

QC Batch:	6981	Analysis Method:	EPA 8082A
QC Batch Method:	EPA 3546	Analysis Description:	8082 GCS PCB
Associated Lab Samples:	265427001, 265427002, 265427003, 265427004		

METHOD BLANK: 33016 Matrix: Solid

Associated Lab Samples: 265427001, 265427002, 265427003, 265427004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	5.4	05/31/18 09:33	
PCB-1221 (Aroclor 1221)	ug/kg	ND	67.0	33.0	05/31/18 09:33	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	33.0	05/31/18 09:33	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	33.0	05/31/18 09:33	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	33.0	05/31/18 09:33	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	33.0	05/31/18 09:33	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	4.1	05/31/18 09:33	
Decachlorobiphenyl (S)	%.	79	12-139		05/31/18 09:33	

LABORATORY CONTROL SAMPLE: 33017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	160	96	50-120	
PCB-1260 (Aroclor 1260)	ug/kg	167	161	96	64-121	
Decachlorobiphenyl (S)	%.			85	12-139	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33018 33019

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
		265348001 Result	Spike Conc.	Spike Conc.	MS Result					
PCB-1016 (Aroclor 1016)	ug/kg	<5.6	174	174	217	128	125	74	39-120	51 19 M1,R1
PCB-1260 (Aroclor 1260)	ug/kg	<4.3	174	174	209	123	120	71	24-144	51 35 R1
Decachlorobiphenyl (S)	%.						99	57	12-139	

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876
Pace Project No.: 265427

QC Batch:	6870	Analysis Method:	Pace SOP #204
QC Batch Method:	Pace SOP #204	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples: 265427001, 265427002, 265427003, 265427004			

SAMPLE DUPLICATE: 32681

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.3	7.5	2	10	

SAMPLE DUPLICATE: 32682

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.4	11.9	4	10	

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QUALIFIERS

Project: Southland Circle Site - 018876

Pace Project No.: 265427

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-GA Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Southland Circle Site - 018876
 Pace Project No.: 265427

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
265427001	S-018876.052318-DJB-001	EPA 3546	6981	EPA 8082A	7038
265427002	S-018876.052318-DJB-002	EPA 3546	6981	EPA 8082A	7038
265427003	S-018876.052318-DJB-003	EPA 3546	6981	EPA 8082A	7038
265427004	S-018876.052318-DJB-004	EPA 3546	6981	EPA 8082A	7038
265427001	S-018876.052318-DJB-001	EPA 5035	6977	EPA 8260B	6984
265427002	S-018876.052318-DJB-002	EPA 5035	6977	EPA 8260B	6984
265427001	S-018876.052318-DJB-001	Pace SOP #204	6870		
265427002	S-018876.052318-DJB-002	Pace SOP #204	6870		
265427003	S-018876.052318-DJB-003	Pace SOP #204	6870		
265427004	S-018876.052318-DJB-004	Pace SOP #204	6870		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company: GHG	Report To: Terrie Mazengia
Address: 3075 Buckridge Blvd, Suite 470	Copy To: Paul McManamon
Duluth, GA 30096	
Email: terrie.mazengia@ghid.com	Purchase Order #: 018676 - 2018-001
Phone: 678-260-2140	Project Name: Southland Circle Site - 018816
Requested Due Date:	Project #: 018676

Section B
Required Project Information:

Attention: Julie Wisniewski
Company Name:
Address:
Pace Quote:
Pace Project Manager: betsy.medanie@paceciabos.com,
Pace Profile #: 1483

Section C
Invoice Information:

Regulatory Agency:
State / Location: GA
Residual Chlorine (Y/N)

ITEM #	SAMPLE ID	One Character per box. (A-Z, 0-9, -,) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Rock Oil Wipe Air One Tissue	CODE DW WT WW P SL OL WP AR OT TS	SAMPLE TYPE (See Vessel codes to left) Matrix Code (G=GRAB C=COMP)	# OF CONTAINERS	SAMPLE TEMP AT COLLECTION				Preservatives	Antibiotics Test	V/N	Requested Analysis Filtered (Y/N)
							START	END	DATE	TIME				
1	S-018676-052318-DJB-001		SCL	ET23/04/11:00		1	7	Y						
2	S-018676-052318-DJ9-002		SCL	ET23/04/11:15		1	7	Y						
3	S-018676-052318-DJ9-003		SCL	ET23/04/11:30		2	2	Y						
4	S-018676-052318-DJ3-004		SCL	ET23/04/11:45		2	2	Y						
5														
6														
7														
8														
9														
10														
11														
12														

M0# : 265427


RECEIVED BY / CERTIFICATION	DATE	TIME	SAMPLE CONDITIONS	
PCB Monologs by Method 1668	5/25/18	9:40	B. Nguyen/Pace	
See Show for additional instruction			5/25/18 13:44	
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLET:		
Signature of SAMPLET:		DATE Signed:		
TEMP IN C				
RECEIVED ON				
Sample ID (Y/N)				
Collector (Y/N)				
Sealed Container (Y/N)				
Sampled (Y/N)				

Sample Condition Upon Receipt

Client Name: GHD

Project #

WO# : 265427

PM: BM

Due Date: 06/04/18

CLIENT: GHD

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None OtherThermometer Used: 83Type of Ice: Wet Blue NoneCooler Temperature: 21

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments: _____

Samples on ice, cooling process has begun

Date and Initials of person examining contents: 5/25/18 MR

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	SL
All containers needing preservation have been checked:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples a copy of this form will be sent to the North Carolina DEHNR Certification Office (late out of hold, incorrect preservative, out of temp, incorrect containers)

Report Prepared for:

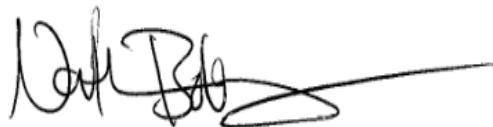
Eben Buchanan
PASI-Georgia
110 Technology Parkway
Peachtree Corners GA 30092

**REPORT OF
LABORATORY
ANALYSIS
FOR PCBs**

Report Information:

Pace Project #: 10433137
Sample Receipt Date: 05/26/2018
Client Project #: 265427 GHD
Client Sub PO #: N/A
State Cert #: 959

This report has been reviewed by:



June 12, 2018
Nathan Boberg, Project Manager
(612) 607-6444 (fax)
nathan.boberg@pacelabs.com



Report Prepared Date:

June 11, 2018

Report No.....10433137_TB_DFR

Report of Laboratory Analysis

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The results relate only to the samples included in this report.

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Page 1 of 23



Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report provides results for two samples that were spiked with the Method 1668 internal standards and extracted. The extracts were then processed through cleanup procedures and analyzed as a screening determination for PCB content. All of the internal standard recoveries were within the ranges expected for this method. Since the method uses internal standard and isotope dilution procedures, the results have a built in correction for recovery and accurate results are expected. The method blank contained low levels of selected DiCB congeners within the reporting range. Sample levels for the Di- and Tetra-CBs were similar to the levels determined in the method blank and may have originate, at least partially, in the laboratory. With the exception of a slightly elevated recovery for the DecaCB congener, the lab spike recoveries were within the target range for this method. The sample results for DecaCB could be biased slightly high.

REPORT OF LABORATORY ANALYSIS

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Chain of Custody

WO# : 10433137



Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: GA

Workorder: 265427 Workorder Name:Southland Circle Site - 018876

Report To: Subcontract To:

Betsy McDaniel
Pace Analytical Atlanta
110 Technology Parkway
Peachtree Corners, GA 30092
Phone (770)734-4200

Owner Received Date: 5/25/2018 Results Requested By: 6/4/2018

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Container		Comments
						Unpreserved	LAB USE ONLY	
1	S-018876.052318-DJB-002	PS	5/23/2018 11:15	265427002	Solid	1	X	
2	S-018876.052318-DJB-003	PS	5/23/2018 11:30	265427003	Solid	1	X	
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Comments	
				Date/Time	
1	M. Alman	5/23/18 10:40 AM		S-24-18 846	
2					
3					

Cooler Temperature on Receipt 44 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.



Document Name:
Sample Condition Upon Receipt Form
 Document No.:
F-MN-L-213-rev.23

Document Revised: 02May2018
 Page 1 of 2
 Issuing Authority:
Pace Minnesota Quality Office

**Sample Condition
Upon Receipt**

Client Name:

Pace Atlanta

Project #:

WO# : 10433137

Courier: Fed Ex UPS USPS Client
 Commercial Pace SpeeDee Other: _____

Tracking Number: *7413 6664 0424*

PM: NB3 Due Date: 06/04/18
CLIENT: PASI-GA

Custody Seal on Cooler/Box Present? Yes No

Seals Intact? Yes No

Optional: Proj. Due Date: Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other: _____ **Temp Blank?** Yes No

Thermometer Used: G87A9170600254 G87A9155100842

Type of Ice: Wet Blue None Dry Melted

Cooler Temp Read (°C): *4.4*

Cooler Temp Corrected (°C): *4.4*

Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C

Correction Factor: *0.0*

Date and Initials of Person Examining Contents: *5/26/18 LP*

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?

Yes No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	8.
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	9.
Containers Intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Is sufficient information available to reconcile the samples to the COC? Matrix: <i>Si</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	12.
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Trip Blank Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Pace Trip Blank Lot # (if purchased):			
CLIENT NOTIFICATION/RESOLUTION			Field Data Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Person Contacted:		Date/Time:	
Comments/Resolution:			

Project Manager Review:

Date: 5/30/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

	Document Name: Regulated Soil Checklist	Document Revised: 13Feb2018 Page 1 of 2
Document No.: F-MN-Q-338-Rev.06		Issuing Authority: Pace Minnesota Quality Office

USDA REGULATED SOIL CHECKLIST

To Be Completed by SR Staff:

WO: 10433137

Date:

5/26/18

Initials:

Sample Origin (circle one):

DOMESTIC

QUARANTINED

FOREIGN

(Note: soil samples from Hawaii, Guam, Puerto Rico and the US Virgin Islands are considered to be of a Foreign Source)

If Domestic, circle State of Origin: AL AR CA FL GA LA MS NC NM NY OK OR SC TN TX VA

(Includes: IFA, SOD, Golden Nematode, Karnal Bunt and Witchweed)

List County:

(USDA Permit/Compliance Agreement authorizes movement of samples from these domestic regulated zones)

If Quarantined, circle State of Origin:

FL ID TX CA

List County:

(Includes Fruit Fly, Giant African Snail and Pale Cyst Nematode)

(Movement is not authorized for Pale Cyst Nematode [ID or Giant African Snail [FL], remaining quarantines require additional paperwork)

If Foreign, list Country of Origin:

(Movement from some Canadian Provinces is not allowed. Refer to CS-232 Regulated Soil Flow Chart)

REQUIREMENT	ACTION	COMPLETED
PPQ-530 Paperwork must be included for any samples from counties with a Fruit Fly Quarantine in TX. Refer to MN-S063 through MN-S065	Scan PPQ-530 to the corresponding Project folder on the x drive. If PPQ-530 is not present, contact the Waste Coordinator and do not continue processing samples.	YES NO <input checked="" type="radio"/> N/A
Samples from ID may not be moved from the quarantined region. Refer to MN-S055	If samples originated in a quarantined zone, contact the Waste Coordinator and do not continue processing samples.	YES NO <input checked="" type="radio"/> N/A
Samples from Giant African Snail Quarantine in FL may not be moved from the quarantined region. Refer to MN-S068	If samples originated in a quarantined zone, contact the Waste Coordinator and do not continue processing samples.	YES NO <input checked="" type="radio"/> N/A

REQUIREMENT	ACTION	COMPLETED
"Special Handling" stickers are to be placed on all samples.	Did "special handling" stickers get placed on all sample containers?	<input checked="" type="radio"/> YES NO
Samples must be segregated and stored in designated bins, shelves and coolers.	Were samples placed in a designated cooler, containers and shelves?	<input checked="" type="radio"/> YES NO
	Were there any signs of breakage or leakage (check for broken glass and/or loose soil in the cooler)? If NO, ice and melt water can be disposed of by normal process (down the drain).	YES <input checked="" type="radio"/> NO
Samples must be double contained to prevent accidental release.	If YES, were ice and melt water separated from the cooler and disposed of properly? Any broken glass and/or loose soil are to be bagged and placed in a USDA Regulated satellite container or active drum (see Waste Coordinator). Ice and melt water should be baked at a temperature range of 121-154°F for 2 hours and then cooled before going down the drain.	YES NO <input checked="" type="radio"/> N/A
Equipment and supplies that have come into contact with samples must be decontaminated.	Was the cooler(s) and/or countertop(s) decontaminated using either a fresh 10% bleach solution or 70% ethanol? (Gloves and other lab supplies will be bagged and placed in the USDA Regulated satellite container or active drum).	<input checked="" type="radio"/> YES NO

Comments:

	Document Name: Regulated Soil Checklist	Document Revised: 13Feb2018 Page 2 of 2
	Document No.: F-MN-Q-338-Rev.06	Issuing Authority: Pace Minnesota Quality Office

To Be Completed by PM and/or PC:

Sample Analysis to be conducted (circle all that apply): MN Subcontract Lab

Name of Subcontract Lab (s):

REQUIREMENT	ACTION	COMPLETED
Permission to ship untreated soil must be on file prior to shipping to any subcontract lab, including IR Pace Labs.	Go to: J:\SHARE\PRJ_MGR\10_Client Services Department Documents\Regulated Soils Permits – if permission to ship letter is not there, contact the Waste Coordinator.	YES NO N/A
Shipment must include a valid copy of the receiving lab's permit as well as permission to ship letter.	Is a copy of all needed paperwork included with the COC? Do NOT ship samples until all necessary paperwork is compiled.	YES NO N/A

Comments:

Project Manager Signature:



Date: 5/30/18

Sample Receipt Form

Pace Analytical Services, LLC
Minnesota



Login Summary

Workorder: 10433137
Report Version: C
Min Sample Due: 06/04/2018 17:00
Max Sample Due: 06/04/2018 17:00

Client Work ID: 265427 GHD
Client: PASI-Georgia
Profile: 36743
Profile Desc: All Dioxin

Lab ID	Sample ID	Collected	Received	Report			Due Date
				Matrix	Properties	Location	
265427002	S-018876.052318-DJB-002	05/23/18 11:15	05/26/18 08:45	SL	J2F	GA	06/04/18
265427003	S-018876.052318-DJB-003	05/23/18 11:30	05/26/18 08:45	SL	J2F	GA	06/04/18

Section 1

Quality Control (QC) Summary



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

**PCB Congener Screening Analysis Results
LCS Analysis Results**

Lab Sample ID	LCS-62710	Matrix	Solid
Filename	P180607B_05	Dilution	NA
Injected By	CVS	Extracted	NA
Total Amount Extracted	10.0 g	Analyzed	06/07/2018 23:56
ICAL ID	P180607B01		

Congener Group	Spiked ng	Found ng	Recovery %
Total MoCB	2.0	1.92	96
Total DiCB	2.0	1.42	71
Total TrCB	2.0	1.55	78
Total TeCB	3.0	2.89	96
Total PeCB	6.0	6.48	108
Total HxCB	5.0	5.67	113
Total HpCB	2.0	2.40	120
Total OcCB	2.0	2.22	111
Total NoCB	2.0	1.80	90
DeCB	2.0	3.11	156

ND = Not Detected

Results reported on a total weight basis

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Lab Sample ID LCS-62710
Filename P180607B_05

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	9.915	2.0	1.20	60
13C-4-MoCB	3	12.826	2.0	1.37	68
13C-2,2'-DiCB	4	13.125	2.0	1.41	71
13C-4,4'-DiCB	15	20.383	2.0	1.52	76
13C-2,2',6-TrCB	19	17.041	2.0	1.43	72
13C-3,4,4'-TrCB	37	28.220	2.0	1.44	72
13C-2,2',6,6'-TeCB	54	20.707	2.0	1.40	70
13C-3,4,4',5-TeCB	81	35.384	2.0	1.51	75
13C-3,3',4,4'-TeCB	77	35.988	2.0	1.59	80
13C-2,2',4,6,6'-PeCB	104	26.845	2.0	1.49	74
13C-2,3',4,4',5'-PeCB	123	38.005	2.0	1.65	82
13C-2,3',4,4',5-PeCB	118	38.340	2.0	1.63	81
13C-2,3,4,4',5-PeCB	114	38.910	2.0	1.69	84
13C-2,3,3',4,4'-PeCB	105	39.581	2.0	1.58	79
13C-3,3',4,4',5-PeCB	126	42.766	2.0	1.66	83
13C-2,2',4,4',6,6'-HxCB	155	32.886	2.0	1.43	71
13C-2,3',4,4',5,5'-HxCB	167	44.616	2.0	1.46	73
13C-2,3,3',4,4',5-HxCB	156	45.773	2.0	1.58	79
13C-2,3,3',4,4',5'-HxCB	157	45.857	2.0	1.36	68
13C-3,3',4,4',5,5'-HxCB	169	49.126	2.0	1.35	68
13C-2,2',3,4',5,6,6'-HpCB	188	38.826	2.0	1.72	86
13C-2,3,3',4,4',5,5'-HpCB	189	51.565	2.0	1.65	82
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.331	2.0	1.65	82
13C-2,3,3',4,4',5,5',6-Occb	205	53.591	2.0	1.64	82
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.091	2.0	1.73	87
13C-2,2',3,3',4,4',5,5',6-NoCB	206	55.099	2.0	1.65	82
13C--DeCB	209	56.608	2.0	1.63	81
Cleanup Standards					
13C-2,4,4'-TrCB	28	23.809	2.0	1.28	64
13C-2,3,3',5,5'-PeCB	111	35.954	2.0	1.45	73
13C-2,2',3,3',5,5'-HpCB	178	41.962	2.0	1.43	71
Recovery Standards					
13C-2,5-DiCB	9	15.663	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.805	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.138	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.542	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.203	2.0	NA	NA

NA = Not Applicable

ND = Not Detected

RT = Retention Time

ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

**PCB Congener Screening Analysis Results
Blank Analysis Results**

Lab Sample ID	BLANK-62709	Matrix	Solid
Filename	P180607B_08	Dilution	NA
Injected By	CVS	Extracted	NA
Total Amount Extracted	10.0 g	Analyzed	06/08/2018 02:58
ICAL ID	P180607B01		

Congener Group	Concentration ng/Kg	Reporting Limit ng/Kg
Total MoCB	ND	50.0
Total DiCB	88.9	50.0
Total TrCB	ND	50.0
Total TeCB	51.3	50.0
Total PeCB	ND	50.0
Total HxCB	ND	50.0
Total HpCB	ND	50.0
Total OcCB	ND	50.0
Total NoCB	ND	50.0
DeCB	ND	50.0
Total PCBs	140	

ND = Not Detected

Results reported on a total weight basis

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Lab Sample ID: BLANK-62709
Filename: P180607B_08

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	9.915	2.0	1.23	61
13C-4-MoCB	3	12.839	2.0	1.25	62
13C-2,2'-DiCB	4	13.150	2.0	1.30	65
13C-4,4'-DiCB	15	20.396	2.0	1.45	72
13C-2,2',6-TrCB	19	17.078	2.0	1.48	74
13C-3,4,4'-TrCB	37	28.238	2.0	1.45	72
13C-2,2',6,6'-TeCB	54	20.708	2.0	1.50	75
13C-3,4,4',5-TeCB	81	35.403	2.0	1.36	68
13C-3,3',4,4'-TeCB	77	36.057	2.0	1.56	78
13C-2,2',4,6,6'-PeCB	104	26.846	2.0	1.44	72
13C-2,3',4,4',5'-PeCB	123	38.024	2.0	1.60	80
13C-2,3',4,4',5-PeCB	118	38.360	2.0	1.61	80
13C-2,3,4,4',5-PeCB	114	38.930	2.0	1.63	82
13C-2,3,3',4,4'-PeCB	105	39.601	2.0	1.59	79
13C-3,3',4,4',5-PeCB	126	42.787	2.0	1.61	80
13C-2,2',4,4',6,6'-HxCB	155	32.888	2.0	1.25	63
13C-2,3',4,4',5,5'-HxCB	167	44.620	2.0	1.25	62
13C-2,3,3',4,4',5-HxCB	156	45.794	2.0	1.59	79
13C-2,3,3',4,4',5'-HxCB	157	45.861	2.0	0.952	48
13C-3,3',4,4',5,5'-HxCB	169	49.148	2.0	1.23	61
13C-2,2',3,4',5,6,6'-HpCB	188	38.829	2.0	1.54	77
13C-2,3,3',4,4',5,5'-HpCB	189	51.570	2.0	1.57	79
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.352	2.0	1.50	75
13C-2,3,3',4,4',5,5',6-Occb	205	53.596	2.0	1.46	73
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.096	2.0	1.46	73
13C-2,2',3,3',4,4',5,5',6-NoCB	206	55.083	2.0	1.45	73
13C--DeCB	209	56.657	2.0	1.36	68
Cleanup Standards					
13C-2,4,4'-TrCB	28	23.811	2.0	1.33	66
13C-2,3,3',5,5'-PeCB	111	36.007	2.0	1.44	72
13C-2,2',3,3',5,5',6-HpCB	178	41.965	2.0	1.20	60
Recovery Standards					
13C-2,5-DiCB	9	15.712	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.823	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.156	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.546	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.208	2.0	NA	NA

NA = Not Applicable

ND = Not Detected

RT = Retention Time

ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Section 2

Sample Data



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results

Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	S-018876.052318-DJB-002		
Lab Sample ID	265427002		
Filename	P180607B_11		
Injected By	CVS	Matrix	Solid
Total Amount Extracted	15.6 g	Dilution	NA
% Moisture	35.7	Collected	05/23/2018 11:15
Dry Weight Extracted	10.0 g	Received	05/26/2018 08:45
ICAL ID	P180607B01	Extracted	06/01/2018 16:15
Method Blank ID	BLANK-62709	Analyzed	06/08/2018 06:00

Congener Group	Concentration ng/Kg	Reporting Limit ng/Kg
Total MoCB	ND	50.0
Total DiCB	53.1	50.0
Total TrCB	ND	50.0
Total TeCB	ND	50.0
Total PeCB	ND	50.0
Total HxCB	ND	50.0
Total HpCB	ND	50.0
Total OcCB	ND	50.0
Total NoCB	ND	50.0
DeCB	ND	50.0
Total PCBs	53.1	

ND = Not Detected

Results reported on a dry weight basis

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Client Sample ID S-018876.052318-DJB-002
Lab Sample ID 265427002
Filename P180607B_11

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	9.915	2.0	1.25	63
13C-4-MoCB	3	12.826	2.0	1.41	70
13C-2,2'-DiCB	4	13.125	2.0	1.49	75
13C-4,4'-DiCB	15	20.360	2.0	1.46	73
13C-2,2',6-TrCB	19	17.029	2.0	1.39	69
13C-3,4,4'-TrCB	37	28.220	2.0	1.52	76
13C-2,2',6,6'-TeCB	54	20.691	2.0	1.38	69
13C-3,4,4',5-TeCB	81	35.385	2.0	1.40	70
13C-3,3',4,4'-TeCB	77	36.005	2.0	1.57	79
13C-2,2',4,6,6'-PeCB	104	26.828	2.0	1.46	73
13C-2,3',4,4',5'-PeCB	123	38.006	2.0	1.57	78
13C-2,3',4,4',5-PeCB	118	38.341	2.0	1.48	74
13C-2,3,4,4',5-PeCB	114	38.911	2.0	1.52	76
13C-2,3,3',4,4'-PeCB	105	39.582	2.0	1.54	77
13C-3,3',4,4',5-PeCB	126	42.751	2.0	1.57	78
13C-2,2',4,4',6,6'-HxCB	155	32.887	2.0	1.47	74
13C-2,3',4,4',5,5'-HxCB	167	44.618	2.0	1.45	73
13C-2,3,3',4,4',5-HxCB	156	45.775	2.0	1.59	80
13C-2,3,3',4,4',5'-HxCB	157	45.859	2.0	1.20	60
13C-3,3',4,4',5,5'-HxCB	169	49.111	2.0	1.35	68
13C-2,2',3,4',5,6,6'-HpCB	188	38.828	2.0	1.65	82
13C-2,3,3',4,4',5,5'-HpCB	189	51.567	2.0	1.67	83
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.316	2.0	1.56	78
13C-2,3,3',4,4',5,5',6-Occb	205	53.593	2.0	1.59	79
13C-2,2',3,3',4,5,5',6-NoCB	208	51.093	2.0	1.61	80
13C-2,2',3,3',4,4',5,5',6-NoCB	206	55.102	2.0	1.57	79
13C--DeCB	209	56.611	2.0	1.63	81
Cleanup Standards					
13C-2,4,4'-TrCB	28	23.793	2.0	1.35	67
13C-2,3,3',5,5'-PeCB	111	35.955	2.0	1.41	70
13C-2,2',3,3',5,5',6-HpCB	178	41.963	2.0	1.36	68
Recovery Standards					
13C-2,5-DiCB	9	15.651	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.788	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.138	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.544	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.205	2.0	NA	NA

NA = Not Applicable

ND = Not Detected

RT = Retention Time

ng's = Nanograms

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results

Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	S-018876.052318-DJB-003		
Lab Sample ID	265427003		
Filename	P180607B_12		
Injected By	CVS	Matrix	Solid
Total Amount Extracted	12.4 g	Dilution	NA
% Moisture	18.3	Collected	05/23/2018 11:30
Dry Weight Extracted	10.1 g	Received	05/26/2018 08:45
ICAL ID	P180607B01	Extracted	06/01/2018 16:15
Method Blank ID	BLANK-62709	Analyzed	06/08/2018 07:01

Congener Group	Concentration ng/Kg	Reporting Limit ng/Kg
Total MoCB	ND	50.0
Total DiCB	101	50.0
Total TrCB	113	50.0
Total TeCB	193	50.0
Total PeCB	561	50.0
Total HxCB	1150	50.0
Total HpCB	675	50.0
Total OcCB	212	50.0
Total NoCB	190	50.0
DeCB	864	50.0
Total PCBs	4050	

ND = Not Detected

Results reported on a dry weight basis

REPORT OF LABORATORY ANALYSIS

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PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Client Sample ID S-018876.052318-DJB-003
Lab Sample ID 265427003
Filename P180607B_12

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	9.915	2.0	1.28	64
13C-4-MoCB	3	12.838	2.0	1.39	69
13C-2,2'-DiCB	4	13.137	2.0	1.45	72
13C-4,4'-DiCB	15	20.479	2.0	1.59	79
13C-2,2',6-TrCB	19	17.053	2.0	1.54	77
13C-3,4,4'-TrCB	37	28.254	2.0	1.73	87
13C-2,2',6,6'-TeCB	54	20.808	2.0	1.62	81
13C-3,4,4',5-TeCB	81	35.386	2.0	1.77	88
13C-3,3',4,4'-TeCB	77	35.989	2.0	1.73	86
13C-2,2',4,6,6'-PeCB	104	26.862	2.0	1.61	80
13C-2,3',4,4',5'-PeCB	123	38.007	2.0	1.71	86
13C-2,3',4,4',5-PeCB	118	38.342	2.0	1.69	85
13C-2,3,4,4',5-PeCB	114	38.913	2.0	1.69	85
13C-2,3,3',4,4'-PeCB	105	39.583	2.0	1.66	83
13C-3,3',4,4',5-PeCB	126	42.770	2.0	1.61	80
13C-2,2',4,4',6,6'-HxCB	155	32.887	2.0	1.50	75
13C-2,3',4,4',5,5'-HxCB	167	44.619	2.0	1.54	77
13C-2,3,3',4,4',5-HxCB	156	45.793	2.0	1.81	90
13C-2,3,3',4,4',5'-HxCB	157	45.860	2.0	1.10	55
13C-3,3',4,4',5,5'-HxCB	169	49.130	2.0	1.42	71
13C-2,2',3,4',5,6,6'-HpCB	188	38.829	2.0	1.84	92
13C-2,3,3',4,4',5,5'-HpCB	189	51.590	2.0	1.60	80
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.334	2.0	1.71	86
13C-2,3,3',4,4',5,5',6-OcCB	205	53.595	2.0	1.59	80
13C-2,2',3,3',4,5,5',6-NoCB	208	51.094	2.0	1.76	88
13C-2,2',3,3',4,4',5,5',6-NoCB	206	55.103	2.0	1.64	82
13C--DeCB	209	56.634	2.0	1.66	83
Cleanup Standards					
13C-2,4,4'-TrCB	28	23.827	2.0	1.44	72
13C-2,3,3',5,5'-PeCB	111	35.956	2.0	1.53	76
13C-2,2',3,3',5,5',6-HpCB	178	41.965	2.0	1.47	73
Recovery Standards					
13C-2,5-DiCB	9	15.651	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	25.839	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	33.139	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	41.562	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.207	2.0	NA	NA

NA = Not Applicable

ND = Not Detected

RT = Retention Time

ng's = Nanograms

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Section 3

Standards Data



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Polychlorobiphenyl Screen Single Point Calibration

Calibration ID	P180607B_01	Data File	P180607B_01
Calibration Date	06/07/2018 19:53	Injected By	CVS
Initial Calibration	P180607B_01	Column Phase	SPB-OCTYL
Instrument	10MSHR09 (P)	Column ID No.	

Parameter	RT Lo	RT Hi	RF
Total MoCB	9.903	12.814	1.5838
Total DiCB	13.125	20.372	2.5062
Total TrCB	17.029	28.237	2.9055
Total TeCB	20.691	35.989	2.5410
Total PeCB	26.845	42.769	1.6424
Total HxCB	32.887	49.129	1.6508
Total HpCB	38.828	51.568	1.7983
Total OcCB	44.333	53.594	2.0626
Total NoCB	51.094	55.081	2.6957
DeCB	56.633	56.633	0.8384

RT Lo = Lower Retention Time Window
RT Hi = Upper Retention Time Windows
RF = Response Factor

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Polychlorobiphenyl Screen Single Point Calibration

Data File P180607B_01
Calibration Date 06/07/2018 19:53
Instrument 10MSHR09 (P)

Injected By CVS
Column Phase SPB-OCTYL
Column ID No.

Parameter	IUPAC	RT	RF
Labeled Analytes			
13C-2-MoCB	1	9.903	1.2382
13C-4-MoCB	3	12.814	1.2377
13C-2,2'-DiCB	4	13.125	0.4814
13C-4,4'-DiCB	15	20.372	0.9874
13C-2,2',6-TrCB	19	17.029	0.4178
13C-3,4,4'-TrCB	37	28.237	1.8629
13C-2,2',6,6'-TeCB	54	20.691	1.2188
13C-3,4,4',5-TeCB	81	35.386	1.2609
13C-3,3',4,4'-TeCB	77	35.989	1.3487
13C-2,2',4,6,6'-PeCB	104	26.845	1.0718
13C-2,3',4,4',5-PeCB	123	38.007	1.2809
13C-2,3',4,4',5-PeCB	118	38.359	1.3584
13C-2,3,4,4',5-PeCB	114	38.912	1.2871
13C-2,3,3',4,4'-PeCB	105	39.583	1.3235
13C-3,3',4,4',5-PeCB	126	42.769	1.2734
13C-2,2',4,4',6,6'-HxCB	155	32.887	1.2616
13C-2,3',4,4',5,5'-HxCB	167	44.619	1.3870
13C-2,3,3',4,4',5-HxCB	156	45.792	1.2437
13C-2,3,3',4,4',5'-HxCB	157	45.860	1.4619
13C-3,3',4,4',5,5'-HxCB	169	49.129	1.3387
13C-2,2',3,4',5,6,6'-HpCB	188	38.828	1.5848
13C-2,3,3',4,4',5,5'-HpCB	189	51.568	1.7529
13C-2,2',3,3',5,5',6,6'-OcCB	202	44.333	1.3981
13C-2,3,3',4,4',5,5',6-OcCB	205	53.594	1.2778
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	51.094	1.1486
13C-2,2',3,3',4,4',5,5',6-NoCB	206	55.081	0.7955
13C--DeCB	209	56.633	0.8384
Cleanup Standards			
13C-2,4,4'-TrCB	28	23.810	2.3496
13C-2,3,3',5,5'-PeCB	111	35.956	1.3593
13C-2,2',3,3',5,5',6-HpCB	178	41.964	0.8055
Recovery Standards			
13C-2,5-DiCB	9	15.627	3.1485
13C-2,2',5,5'-TeCB	52	25.806	1.2041
13C-2,2',4,5,5'-PeCB	101	33.155	1.4686
13C-2,2',3,4,4',5'-HxCB	138	41.545	1.2415
13C-2,2',3,3',4,4',5,5'-OcCB	194	53.206	0.8429

RT = Retention Time

RF = Response Factor

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Section 4

Preparation Logs

1668A - 209

Solid

Soxhlet

EB-22166

		Extract Solvents:	Extraction On (Date/Time):	
QC Matrix Lot #:	Rinsed & Baked	Toluene Lot #	174397	06/01/18 16:15
Time of Spiking:	06/01/18 14:45	Hexane Lot #		Extraction Off (Date/Time):
Balance:	10BAL2	MeCl Lot #		06/02/18 08:15

Standards	Name/ID	Amount	Initial	Witness	Expiration Date	Dispenser
Internal Std.	209-I-11754-161	100	PED	AXH	04/24/19	Q476
Native	209-N-11754-141	100	PED	AXH	03/06/19	Q476
CI37 Std.	209-CL-11754-171	100	NH		06/01/19	Q482
Recovery	209-R-11754-167	10	MF		05/16/19	Q521
Tridecane	A0369805	10	MF			HR1010
Others	NONANE A0381846	380	MF			Q482

#	Sample ID	Internal Standards	Native Standards	Extracted mL or g	Glassware Set	Location	Comments
1	BLANK-62709	x		10.7			
2	LCS-62710	x	x	10.4			
3	LCSD-62711	x	x	10.1			
4	265427002	x		15.6		Rcvng	1668/1668A/1668C-trackback
5	265427003	x		12.4		Rcvng	1668/1668A/1668C-trackback

Relinquished By: M Felea

Received By: _____

Date: _____

1.Final 12mm 209 columns run 6/5/18. NMP

MeCl2: 182138, Q424

Hexane: 180405, Q266

Silica: 182A, 182N

Silica	Alumina	Carbon	Florisil
Initials <u>NMP</u> Date <u>6/4/2018</u>	Initials _____ Date _____	Initials _____ Date _____	Initials _____ Date _____
Neutral Batch <u>182</u>	Alumina Lot # _____	Hexane Lot # _____	Florisil Lot # _____
Basic Batch <u>182</u>	Hexane Lot # _____	Dispenser _____	Hexane Lot # _____
Acid Batch <u>182</u>	Dispenser _____	50% Batch _____	Dispenser _____
Hexane Lot # <u>180405</u>	60% Batch _____	Dispenser _____	6% Batch _____
Dispenser <u>Q266</u>	Dispenser _____	75% Batch _____	Dispenser _____
Acid Base			
Sulphuric Acid Lot # _____		Toluene Lot # _____	
Base Batch _____		Dispenser _____	
		Methanol Lot # _____	
		Dispenser _____	

June 15, 2018

Terefe Mazengia
GHD
3075 Breckinridge Blvd
Suite 470
Duluth, GA 30096

RE: Project: Southland Circle Site - 018876
Pace Project No.: 265835

Dear Terefe Mazengia:

Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Paul McMahon, GHD



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Lab ID	Sample ID	Matrix	Date Collected	Date Received
265835001	GW-018876-060418-SAG-001	Water	06/04/18 10:10	06/07/18 09:25
265835002	GW-018876-060418-SAG-002	Water	06/04/18 13:00	06/07/18 09:25
265835003	GW-018876-060418-SAG-003	Water	06/04/18 14:10	06/07/18 09:25
265835004	GW-018876-060418-SAG-004	Water	06/04/18 15:40	06/07/18 09:25
265835005	GW-018876-060518-SAG-005	Water	06/05/18 09:25	06/07/18 09:25
265835006	GW-018876-060518-SAG-006	Water	06/05/18 11:40	06/07/18 09:25
265835007	GW-018876-060518-SAG-007	Water	06/05/18 11:45	06/07/18 09:25
265835008	GW-018876-060618-SAG-008	Water	06/06/18 09:20	06/07/18 09:25
265835009	GW-018876-060618-SAG-009	Water	06/06/18 10:05	06/07/18 09:25
265835010	GW-018876-060618-SAG-010	Water	06/06/18 11:40	06/07/18 09:25
265835011	Trip Blank	Water	06/04/18 00:00	06/07/18 09:25
265835012	GW-018876-060418-SDL-101	Water	06/04/18 13:10	06/07/18 09:25
265835013	GW-018876-060418-SDL-102	Water	06/04/18 14:12	06/07/18 09:25
265835014	GW-018876-060518-SDL-103	Water	06/05/18 10:55	06/07/18 09:25
265835015	GW-018876-060518-SDL-104	Water	06/05/18 13:30	06/07/18 09:25
265835016	GW-018876-060518-SDL-105	Water	06/05/18 14:35	06/07/18 09:25
265835017	GW-018876-060618-SDL-106	Water	06/06/18 10:25	06/07/18 09:25
265835018	GW-018876-060618-SDL-107	Water	06/06/18 11:10	06/07/18 09:25
265835019	Trip Blank	Water	06/04/18 00:00	06/07/18 09:25

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SAMPLE ANALYTE COUNT

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Lab ID	Sample ID	Method	Analysts	Analytes Reported
265835001	GW-018876-060418-SAG-001	EPA 8260B	RAC	54
265835002	GW-018876-060418-SAG-002	EPA 8260B	RAC	54
265835003	GW-018876-060418-SAG-003	EPA 8082A	SFI	8
		EPA 8260B	RAC	54
265835004	GW-018876-060418-SAG-004	EPA 8082A	SFI	8
		EPA 8260B	RAC	54
265835005	GW-018876-060518-SAG-005	EPA 8082A	SFI	8
		EPA 8260B	RAC	54
265835006	GW-018876-060518-SAG-006	EPA 8082A	SFI	8
		EPA 8260B	RAC	54
265835007	GW-018876-060518-SAG-007	EPA 8082A	SFI	8
		EPA 8260B	RAC	54
265835008	GW-018876-060618-SAG-008	EPA 8260B	RAC	54
265835009	GW-018876-060618-SAG-009	EPA 8082A	SFI	8
		EPA 8260B	RAC	54
265835010	GW-018876-060618-SAG-010	EPA 8082A	SFI	8
		EPA 8260B	RAC	54
265835011	Trip Blank	EPA 8260B	RAC	54
265835012	GW-018876-060418-SDL-101	EPA 8260B	RAC	54
265835013	GW-018876-060418-SDL-102	EPA 8082A	SFI	8
		EPA 8260B	RAC	54
265835014	GW-018876-060518-SDL-103	EPA 8260B	RAC	54
265835015	GW-018876-060518-SDL-104	EPA 8082A	SFI	8
		EPA 8260B	RAC	54
265835016	GW-018876-060518-SDL-105	EPA 8082A	SFI	8
		EPA 8260B	RAC	54
265835017	GW-018876-060618-SDL-106	EPA 8260B	RAC	54
265835018	GW-018876-060618-SDL-107	EPA 8082A	SFI	8
		EPA 8260B	RAC	54
265835019	Trip Blank	EPA 8260B	RAC	54

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060418-SAG-001 Lab ID: 265835001 Collected: 06/04/18 10:10 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					Analyzed	CAS No.	Qual
			Limit	MDL	DF	Prepared				
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
Acetone	ND	ug/L	25.0	8.2	1		06/12/18 22:58	67-64-1		
Benzene	ND	ug/L	1.0	0.20	1		06/12/18 22:58	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/12/18 22:58	75-27-4		
Bromoform	ND	ug/L	1.0	0.55	1		06/12/18 22:58	75-25-2		
Bromomethane	ND	ug/L	2.0	0.95	1		06/12/18 22:58	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/12/18 22:58	78-93-3		
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/12/18 22:58	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/12/18 22:58	56-23-5		
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/12/18 22:58	108-90-7		
Chloroethane	ND	ug/L	1.0	0.52	1		06/12/18 22:58	75-00-3		
Chloroform	ND	ug/L	1.0	0.58	1		06/12/18 22:58	67-66-3		
Chloromethane	ND	ug/L	1.0	0.38	1		06/12/18 22:58	74-87-3		
Cyclohexane	ND	ug/L	10.0	1.6	1		06/12/18 22:58	110-82-7		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/12/18 22:58	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/12/18 22:58	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/12/18 22:58	106-93-4		
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/12/18 22:58	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/12/18 22:58	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	0.58	1		06/12/18 22:58	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/12/18 22:58	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/12/18 22:58	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/12/18 22:58	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/12/18 22:58	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.66	1		06/12/18 22:58	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/12/18 22:58	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/12/18 22:58	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/12/18 22:58	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/12/18 22:58	10061-02-6		
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/12/18 22:58	100-41-4		
2-Hexanone	ND	ug/L	5.0	0.89	1		06/12/18 22:58	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/12/18 22:58	98-82-8		
Methyl acetate	ND	ug/L	10.0	1.5	1		06/12/18 22:58	79-20-9		
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/12/18 22:58	108-87-2		
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/12/18 22:58	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1		06/12/18 22:58	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1		06/12/18 22:58	1634-04-4		
Styrene	ND	ug/L	1.0	0.50	1		06/12/18 22:58	100-42-5		L1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1		06/12/18 22:58	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	0.78	1		06/12/18 22:58	127-18-4		
Toluene	ND	ug/L	1.0	0.31	1		06/12/18 22:58	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.47	1		06/12/18 22:58	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		06/12/18 22:58	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1		06/12/18 22:58	79-00-5		
Trichloroethene	ND	ug/L	1.0	0.34	1		06/12/18 22:58	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1		06/12/18 22:58	75-69-4		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: GW-018876-060418-SAG-001 Lab ID: 265835001 Collected: 06/04/18 10:10 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report				Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF					
8260B MSV Water, Extend	Analytical Method: EPA 8260B									
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/12/18 22:58	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1			06/12/18 22:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/12/18 22:58	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1			06/12/18 22:58	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/12/18 22:58	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	101	%.	81-119		1			06/12/18 22:58	17060-07-0	
Dibromofluoromethane (S)	94	%.	82-114		1			06/12/18 22:58	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	82-120		1			06/12/18 22:58	460-00-4	
Toluene-d8 (S)	102	%.	82-109		1			06/12/18 22:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060418-SAG-002 Lab ID: 265835002 Collected: 06/04/18 13:00 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					Analyzed	CAS No.	Qual
			Limit	MDL	DF	Prepared				
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
Acetone	ND	ug/L	25.0	8.2	1		06/12/18 23:25	67-64-1		
Benzene	ND	ug/L	1.0	0.20	1		06/12/18 23:25	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/12/18 23:25	75-27-4		
Bromoform	ND	ug/L	1.0	0.55	1		06/12/18 23:25	75-25-2		
Bromomethane	ND	ug/L	2.0	0.95	1		06/12/18 23:25	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/12/18 23:25	78-93-3		
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/12/18 23:25	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/12/18 23:25	56-23-5		
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/12/18 23:25	108-90-7		
Chloroethane	ND	ug/L	1.0	0.52	1		06/12/18 23:25	75-00-3		
Chloroform	ND	ug/L	1.0	0.58	1		06/12/18 23:25	67-66-3		
Chloromethane	ND	ug/L	1.0	0.38	1		06/12/18 23:25	74-87-3		
Cyclohexane	ND	ug/L	10.0	1.6	1		06/12/18 23:25	110-82-7		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/12/18 23:25	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/12/18 23:25	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/12/18 23:25	106-93-4		
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/12/18 23:25	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/12/18 23:25	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	0.58	1		06/12/18 23:25	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/12/18 23:25	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/12/18 23:25	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/12/18 23:25	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/12/18 23:25	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.66	1		06/12/18 23:25	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/12/18 23:25	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/12/18 23:25	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/12/18 23:25	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/12/18 23:25	10061-02-6		
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/12/18 23:25	100-41-4		
2-Hexanone	ND	ug/L	5.0	0.89	1		06/12/18 23:25	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/12/18 23:25	98-82-8		
Methyl acetate	ND	ug/L	10.0	1.5	1		06/12/18 23:25	79-20-9		
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/12/18 23:25	108-87-2		
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/12/18 23:25	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1		06/12/18 23:25	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1		06/12/18 23:25	1634-04-4		
Styrene	ND	ug/L	1.0	0.50	1		06/12/18 23:25	100-42-5		L1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1		06/12/18 23:25	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	0.78	1		06/12/18 23:25	127-18-4		
Toluene	ND	ug/L	1.0	0.31	1		06/12/18 23:25	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.47	1		06/12/18 23:25	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		06/12/18 23:25	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1		06/12/18 23:25	79-00-5		
Trichloroethene	ND	ug/L	1.0	0.34	1		06/12/18 23:25	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1		06/12/18 23:25	75-69-4		

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: **GW-018876-060418-SAG-002** Lab ID: **265835002** Collected: 06/04/18 13:00 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report				Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF					
8260B MSV Water, Extend	Analytical Method: EPA 8260B									
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1					06/12/18 23:25 76-13-1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1					06/12/18 23:25 95-63-6
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1					06/12/18 23:25 108-67-8
Vinyl chloride	ND	ug/L	1.0	0.60	1					06/12/18 23:25 75-01-4
Xylene (Total)	ND	ug/L	2.0	1.5	1					06/12/18 23:25 1330-20-7
Surrogates										
1,2-Dichloroethane-d4 (S)	101	%.	81-119		1					06/12/18 23:25 17060-07-0
Dibromofluoromethane (S)	94	%.	82-114		1					06/12/18 23:25 1868-53-7
4-Bromofluorobenzene (S)	100	%.	82-120		1					06/12/18 23:25 460-00-4
Toluene-d8 (S)	102	%.	82-109		1					06/12/18 23:25 2037-26-5

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060418-SAG-003 **Lab ID: 265835003** Collected: 06/04/18 14:10 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report						
			Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.34	1	06/14/18 08:00	06/14/18 14:03	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:03	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:03	11141-16-5	
PCB-1242 (Aroclor 1242)	1.4	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:03	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:03	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:03	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.24	1	06/14/18 08:00	06/14/18 14:03	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	92	%.	17-144		1	06/14/18 08:00	06/14/18 14:03	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/12/18 23:52	67-64-1	
Benzene	ND	ug/L	1.0	0.20	1		06/12/18 23:52	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/12/18 23:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/12/18 23:52	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/12/18 23:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/12/18 23:52	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/12/18 23:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/12/18 23:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/12/18 23:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/12/18 23:52	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/12/18 23:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/12/18 23:52	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/12/18 23:52	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/12/18 23:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/12/18 23:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/12/18 23:52	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/12/18 23:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/12/18 23:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.58	1		06/12/18 23:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/12/18 23:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/12/18 23:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/12/18 23:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/12/18 23:52	75-35-4	
cis-1,2-Dichloroethene	1.6	ug/L	1.0	0.66	1		06/12/18 23:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/12/18 23:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/12/18 23:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/12/18 23:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/12/18 23:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/12/18 23:52	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/12/18 23:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/12/18 23:52	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/12/18 23:52	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/12/18 23:52	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/12/18 23:52	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: **GW-018876-060418-SAG-003** Lab ID: **265835003** Collected: 06/04/18 14:10 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1				06/12/18 23:52	108-10-1
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1				06/12/18 23:52	1634-04-4
Styrene	ND	ug/L	1.0	0.50	1				06/12/18 23:52	100-42-5
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1				06/12/18 23:52	79-34-5
Tetrachloroethene	5.3	ug/L	1.0	0.78	1				06/12/18 23:52	127-18-4
Toluene	ND	ug/L	1.0	0.31	1				06/12/18 23:52	108-88-3
1,2,4-Trichlorobenzene	28.1	ug/L	1.0	0.47	1				06/12/18 23:52	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1				06/12/18 23:52	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1				06/12/18 23:52	79-00-5
Trichloroethene	2.3	ug/L	1.0	0.34	1				06/12/18 23:52	79-01-6
Trichlorofluoromethane	2.7	ug/L	1.0	0.51	1				06/14/18 12:10	75-69-4
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1				06/12/18 23:52	76-13-1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1				06/12/18 23:52	95-63-6
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1				06/12/18 23:52	108-67-8
Vinyl chloride	ND	ug/L	1.0	0.60	1				06/12/18 23:52	75-01-4
Xylene (Total)	ND	ug/L	2.0	1.5	1				06/12/18 23:52	1330-20-7
Surrogates										
1,2-Dichloroethane-d4 (S)	102	%.	81-119		1				06/12/18 23:52	17060-07-0
Dibromofluoromethane (S)	94	%.	82-114		1				06/12/18 23:52	1868-53-7
4-Bromofluorobenzene (S)	99	%.	82-120		1				06/12/18 23:52	460-00-4
Toluene-d8 (S)	102	%.	82-109		1				06/12/18 23:52	2037-26-5

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: **GW-018876-060418-SAG-004** Lab ID: **265835004** Collected: 06/04/18 15:40 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report						
			Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.34	1	06/14/18 08:00	06/14/18 14:24	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:24	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:24	11141-16-5	
PCB-1242 (Aroclor 1242)	2.2	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:24	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:24	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:24	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.24	1	06/14/18 08:00	06/14/18 14:24	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	65	%.	17-144		1	06/14/18 08:00	06/14/18 14:24	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	9.7J	ug/L	25.0	8.2	1		06/13/18 00:18	67-64-1	
Benzene	0.29J	ug/L	1.0	0.20	1		06/13/18 00:18	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 00:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 00:18	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 00:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 00:18	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 00:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 00:18	56-23-5	
Chlorobenzene	0.63J	ug/L	1.0	0.53	1		06/13/18 00:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 00:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 00:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 00:18	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 00:18	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 00:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 00:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 00:18	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/13/18 00:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/13/18 00:18	541-73-1	
1,4-Dichlorobenzene	1.3	ug/L	1.0	0.58	1		06/13/18 00:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 00:18	75-71-8	
1,1-Dichloroethane	6.2	ug/L	1.0	0.41	1		06/13/18 00:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 00:18	107-06-2	
1,1-Dichloroethene	2.4	ug/L	1.0	0.72	1		06/13/18 00:18	75-35-4	
cis-1,2-Dichloroethene	18.0	ug/L	1.0	0.66	1		06/13/18 00:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 00:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 00:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 00:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 00:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 00:18	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 00:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 00:18	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 00:18	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 00:18	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 00:18	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: GW-018876-060418-SAG-004 Lab ID: 265835004 Collected: 06/04/18 15:40 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1				06/13/18 00:18	108-10-1
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1				06/13/18 00:18	1634-04-4
Styrene	ND	ug/L	1.0	0.50	1				06/13/18 00:18	100-42-5
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1				06/13/18 00:18	79-34-5
Tetrachloroethene	85.0	ug/L	1.0	0.78	1				06/13/18 00:18	127-18-4
Toluene	ND	ug/L	1.0	0.31	1				06/13/18 00:18	108-88-3
1,2,4-Trichlorobenzene	45.9	ug/L	1.0	0.47	1				06/13/18 00:18	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1				06/13/18 00:18	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1				06/13/18 00:18	79-00-5
Trichloroethene	15.1	ug/L	1.0	0.34	1				06/13/18 00:18	79-01-6
Trichlorofluoromethane	37.9	ug/L	1.0	0.51	1				06/14/18 12:36	75-69-4
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1				06/13/18 00:18	76-13-1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1				06/13/18 00:18	95-63-6
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1				06/13/18 00:18	108-67-8
Vinyl chloride	0.89J	ug/L	1.0	0.60	1				06/13/18 00:18	75-01-4
Xylene (Total)	ND	ug/L	2.0	1.5	1				06/13/18 00:18	1330-20-7
Surrogates										
1,2-Dichloroethane-d4 (S)	101	%.	81-119		1				06/13/18 00:18	17060-07-0
Dibromofluoromethane (S)	95	%.	82-114		1				06/13/18 00:18	1868-53-7
4-Bromofluorobenzene (S)	100	%.	82-120		1				06/13/18 00:18	460-00-4
Toluene-d8 (S)	101	%.	82-109		1				06/13/18 00:18	2037-26-5

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060518-SAG-005 Lab ID: 265835005 Collected: 06/05/18 09:25 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report						
			Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.34	1	06/14/18 08:00	06/14/18 14:44	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:44	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:44	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:44	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:44	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 14:44	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.24	1	06/14/18 08:00	06/14/18 14:44	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	69	%.	17-144		1	06/14/18 08:00	06/14/18 14:44	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 00:45	67-64-1	
Benzene	0.60J	ug/L	1.0	0.20	1		06/13/18 00:45	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 00:45	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 00:45	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 00:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 00:45	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 00:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 00:45	56-23-5	
Chlorobenzene	9.4	ug/L	1.0	0.53	1		06/13/18 00:45	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 00:45	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 00:45	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 00:45	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 00:45	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 00:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 00:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 00:45	106-93-4	
1,2-Dichlorobenzene	19.4	ug/L	1.0	0.49	1		06/13/18 00:45	95-50-1	
1,3-Dichlorobenzene	1.2	ug/L	1.0	0.59	1		06/13/18 00:45	541-73-1	
1,4-Dichlorobenzene	3.7	ug/L	1.0	0.58	1		06/13/18 00:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 00:45	75-71-8	
1,1-Dichloroethane	24.2	ug/L	1.0	0.41	1		06/13/18 00:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 00:45	107-06-2	
1,1-Dichloroethene	7.8	ug/L	1.0	0.72	1		06/13/18 00:45	75-35-4	
cis-1,2-Dichloroethene	42.1	ug/L	1.0	0.66	1		06/13/18 00:45	156-59-2	
trans-1,2-Dichloroethene	5.6	ug/L	1.0	0.46	1		06/13/18 00:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 00:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 00:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 00:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 00:45	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 00:45	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 00:45	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 00:45	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 00:45	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 00:45	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: GW-018876-060518-SAG-005 Lab ID: 265835005 Collected: 06/05/18 09:25 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1				06/13/18 00:45	108-10-1
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1				06/13/18 00:45	1634-04-4
Styrene	ND	ug/L	1.0	0.50	1				06/13/18 00:45	100-42-5
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1				06/13/18 00:45	79-34-5
Tetrachloroethene	35.4	ug/L	1.0	0.78	1				06/13/18 00:45	127-18-4
Toluene	ND	ug/L	1.0	0.31	1				06/13/18 00:45	108-88-3
1,2,4-Trichlorobenzene	3.4	ug/L	1.0	0.47	1				06/13/18 00:45	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1				06/13/18 00:45	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1				06/13/18 00:45	79-00-5
Trichloroethene	15.9	ug/L	1.0	0.34	1				06/13/18 00:45	79-01-6
Trichlorofluoromethane	38.6	ug/L	1.0	0.51	1				06/14/18 13:03	75-69-4
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1				06/13/18 00:45	76-13-1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1				06/13/18 00:45	95-63-6
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1				06/13/18 00:45	108-67-8
Vinyl chloride	3.1	ug/L	1.0	0.60	1				06/13/18 00:45	75-01-4
Xylene (Total)	ND	ug/L	2.0	1.5	1				06/13/18 00:45	1330-20-7
Surrogates										
1,2-Dichloroethane-d4 (S)	101	%.	81-119		1				06/13/18 00:45	17060-07-0
Dibromofluoromethane (S)	94	%.	82-114		1				06/13/18 00:45	1868-53-7
4-Bromofluorobenzene (S)	100	%.	82-120		1				06/13/18 00:45	460-00-4
Toluene-d8 (S)	100	%.	82-109		1				06/13/18 00:45	2037-26-5

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: **GW-018876-060518-SAG-006** Lab ID: **265835006** Collected: 06/05/18 11:40 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report						
			Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.34	1	06/14/18 08:00	06/14/18 16:49	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 16:49	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 16:49	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 16:49	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 16:49	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 16:49	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.24	1	06/14/18 08:00	06/14/18 16:49	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	62	%.	17-144		1	06/14/18 08:00	06/14/18 16:49	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 15:38	67-64-1	
Benzene	6.9	ug/L	1.0	0.20	1		06/13/18 15:38	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 15:38	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 15:38	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 15:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 15:38	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 15:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 15:38	56-23-5	
Chlorobenzene	59.3	ug/L	1.0	0.53	1		06/13/18 15:38	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 15:38	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 15:38	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 15:38	74-87-3	
Cyclohexane	3.2J	ug/L	10.0	1.6	1		06/13/18 15:38	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 15:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 15:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 15:38	106-93-4	
1,2-Dichlorobenzene	4.2	ug/L	1.0	0.49	1		06/13/18 15:38	95-50-1	
1,3-Dichlorobenzene	12.2	ug/L	1.0	0.59	1		06/13/18 15:38	541-73-1	
1,4-Dichlorobenzene	69.3	ug/L	1.0	0.58	1		06/13/18 15:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 15:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/13/18 15:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 15:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 15:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.66	1		06/13/18 15:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 15:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 15:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 15:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 15:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 15:38	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 15:38	591-78-6	
Isopropylbenzene (Cumene)	3.6J	ug/L	10.0	0.43	1		06/13/18 15:38	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 15:38	79-20-9	
Methylcyclohexane	2.6J	ug/L	10.0	1.4	1		06/13/18 15:38	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 15:38	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: GW-018876-060518-SAG-006 Lab ID: 265835006 Collected: 06/05/18 11:40 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1			06/13/18 15:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1			06/13/18 15:38	1634-04-4	
Styrene	ND	ug/L	1.0	0.50	1			06/13/18 15:38	100-42-5	L1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1			06/13/18 15:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.78	1			06/13/18 15:38	127-18-4	
Toluene	ND	ug/L	1.0	0.31	1			06/13/18 15:38	108-88-3	
1,2,4-Trichlorobenzene	1.4	ug/L	1.0	0.47	1			06/13/18 15:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1			06/13/18 15:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1			06/13/18 15:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.34	1			06/13/18 15:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1			06/13/18 15:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/13/18 15:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1			06/13/18 15:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/13/18 15:38	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1			06/13/18 15:38	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/13/18 15:38	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	100	%.	81-119		1			06/13/18 15:38	17060-07-0	
Dibromofluoromethane (S)	93	%.	82-114		1			06/13/18 15:38	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	82-120		1			06/13/18 15:38	460-00-4	
Toluene-d8 (S)	102	%.	82-109		1			06/13/18 15:38	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060518-SAG-007 Lab ID: 265835007 Collected: 06/05/18 11:45 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report						
			Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.34	1	06/14/18 08:00	06/14/18 17:10	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:10	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:10	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:10	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:10	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:10	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.24	1	06/14/18 08:00	06/14/18 17:10	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	63	%.	17-144		1	06/14/18 08:00	06/14/18 17:10	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 16:05	67-64-1	
Benzene	8.1	ug/L	1.0	0.20	1		06/13/18 16:05	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 16:05	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 16:05	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 16:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 16:05	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 16:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 16:05	56-23-5	
Chlorobenzene	57.8	ug/L	1.0	0.53	1		06/13/18 16:05	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 16:05	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 16:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 16:05	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 16:05	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 16:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 16:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 16:05	106-93-4	
1,2-Dichlorobenzene	3.8	ug/L	1.0	0.49	1		06/13/18 16:05	95-50-1	
1,3-Dichlorobenzene	11.3	ug/L	1.0	0.59	1		06/13/18 16:05	541-73-1	
1,4-Dichlorobenzene	64.6	ug/L	1.0	0.58	1		06/13/18 16:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 16:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/13/18 16:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 16:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 16:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.66	1		06/13/18 16:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 16:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 16:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 16:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 16:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 16:05	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 16:05	591-78-6	
Isopropylbenzene (Cumene)	4.1J	ug/L	10.0	0.43	1		06/13/18 16:05	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 16:05	79-20-9	
Methylcyclohexane	3.1J	ug/L	10.0	1.4	1		06/13/18 16:05	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 16:05	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: GW-018876-060518-SAG-007 Lab ID: 265835007 Collected: 06/05/18 11:45 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1			06/13/18 16:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1			06/13/18 16:05	1634-04-4	
Styrene	ND	ug/L	1.0	0.50	1			06/13/18 16:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1			06/13/18 16:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.78	1			06/13/18 16:05	127-18-4	
Toluene	ND	ug/L	1.0	0.31	1			06/13/18 16:05	108-88-3	
1,2,4-Trichlorobenzene	1.0	ug/L	1.0	0.47	1			06/13/18 16:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1			06/13/18 16:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1			06/13/18 16:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.34	1			06/13/18 16:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1			06/13/18 16:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/13/18 16:05	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1			06/13/18 16:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/13/18 16:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1			06/13/18 16:05	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/13/18 16:05	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	100	%.	81-119		1			06/13/18 16:05	17060-07-0	
Dibromofluoromethane (S)	95	%.	82-114		1			06/13/18 16:05	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	82-120		1			06/13/18 16:05	460-00-4	
Toluene-d8 (S)	103	%.	82-109		1			06/13/18 16:05	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060618-SAG-008 Lab ID: 265835008 Collected: 06/06/18 09:20 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					Analyzed	CAS No.	Qual
			Limit	MDL	DF	Prepared				
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 16:31	67-64-1		
Benzene	ND	ug/L	1.0	0.20	1		06/13/18 16:31	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 16:31	75-27-4		
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 16:31	75-25-2		
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 16:31	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 16:31	78-93-3		
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 16:31	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 16:31	56-23-5		
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/13/18 16:31	108-90-7		
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 16:31	75-00-3		
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 16:31	67-66-3		
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 16:31	74-87-3		
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 16:31	110-82-7		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 16:31	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 16:31	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 16:31	106-93-4		
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/13/18 16:31	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/13/18 16:31	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	0.58	1		06/13/18 16:31	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 16:31	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/13/18 16:31	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 16:31	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 16:31	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.66	1		06/13/18 16:31	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 16:31	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 16:31	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 16:31	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 16:31	10061-02-6		
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 16:31	100-41-4		
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 16:31	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 16:31	98-82-8		
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 16:31	79-20-9		
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 16:31	108-87-2		
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 16:31	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1		06/13/18 16:31	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1		06/13/18 16:31	1634-04-4		
Styrene	ND	ug/L	1.0	0.50	1		06/13/18 16:31	100-42-5		L1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1		06/13/18 16:31	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	0.78	1		06/13/18 16:31	127-18-4		
Toluene	ND	ug/L	1.0	0.31	1		06/13/18 16:31	108-88-3		
1,2,4-Trichlorobenzene	0.59J	ug/L	1.0	0.47	1		06/13/18 16:31	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		06/13/18 16:31	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1		06/13/18 16:31	79-00-5		
Trichloroethene	ND	ug/L	1.0	0.34	1		06/13/18 16:31	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1		06/13/18 16:31	75-69-4		

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: **GW-018876-060618-SAG-008** Lab ID: **265835008** Collected: 06/06/18 09:20 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/13/18 16:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1			06/13/18 16:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/13/18 16:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1			06/13/18 16:31	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/13/18 16:31	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	102	%.	81-119		1			06/13/18 16:31	17060-07-0	
Dibromofluoromethane (S)	93	%.	82-114		1			06/13/18 16:31	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	82-120		1			06/13/18 16:31	460-00-4	
Toluene-d8 (S)	102	%.	82-109		1			06/13/18 16:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060618-SAG-009 **Lab ID: 265835009** Collected: 06/06/18 10:05 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report						
			Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.34	1	06/14/18 08:00	06/14/18 17:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:31	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:31	12672-29-6	
PCB-1254 (Aroclor 1254)	0.89	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:31	11097-69-1	
PCB-1260 (Aroclor 1260)	0.56	ug/L	0.50	0.24	1	06/14/18 08:00	06/14/18 17:31	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	73	%.	17-144		1	06/14/18 08:00	06/14/18 17:31	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 16:58	67-64-1	
Benzene	0.39J	ug/L	1.0	0.20	1		06/13/18 16:58	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 16:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 16:58	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 16:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 16:58	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 16:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 16:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/13/18 16:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 16:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 16:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 16:58	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 16:58	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 16:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 16:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 16:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/13/18 16:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/13/18 16:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.58	1		06/13/18 16:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 16:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/13/18 16:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 16:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 16:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.66	1		06/13/18 16:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 16:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 16:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 16:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 16:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 16:58	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 16:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 16:58	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 16:58	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 16:58	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 16:58	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: **GW-018876-060618-SAG-009** Lab ID: **265835009** Collected: 06/06/18 10:05 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1				06/13/18 16:58	108-10-1
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1				06/13/18 16:58	1634-04-4
Styrene	ND	ug/L	1.0	0.50	1				06/13/18 16:58	100-42-5
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1				06/13/18 16:58	79-34-5
Tetrachloroethene	ND	ug/L	1.0	0.78	1				06/13/18 16:58	127-18-4
Toluene	ND	ug/L	1.0	0.31	1				06/13/18 16:58	108-88-3
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.47	1				06/13/18 16:58	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1				06/13/18 16:58	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1				06/13/18 16:58	79-00-5
Trichloroethene	ND	ug/L	1.0	0.34	1				06/13/18 16:58	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1				06/13/18 16:58	75-69-4
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1				06/13/18 16:58	76-13-1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1				06/13/18 16:58	95-63-6
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1				06/13/18 16:58	108-67-8
Vinyl chloride	ND	ug/L	1.0	0.60	1				06/13/18 16:58	75-01-4
Xylene (Total)	ND	ug/L	2.0	1.5	1				06/13/18 16:58	1330-20-7
Surrogates										
1,2-Dichloroethane-d4 (S)	100	%.	81-119		1				06/13/18 16:58	17060-07-0
Dibromofluoromethane (S)	93	%.	82-114		1				06/13/18 16:58	1868-53-7
4-Bromofluorobenzene (S)	99	%.	82-120		1				06/13/18 16:58	460-00-4
Toluene-d8 (S)	103	%.	82-109		1				06/13/18 16:58	2037-26-5

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060618-SAG-010 Lab ID: 265835010 Collected: 06/06/18 11:40 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report						
			Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.34	1	06/14/18 08:00	06/14/18 17:52	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:52	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:52	11141-16-5	
PCB-1242 (Aroclor 1242)	7.3	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:52	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:52	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 17:52	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.24	1	06/14/18 08:00	06/14/18 17:52	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	68	%.	17-144		1	06/14/18 08:00	06/14/18 17:52	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 17:24	67-64-1	
Benzene	0.42J	ug/L	1.0	0.20	1		06/13/18 17:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 17:24	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 17:24	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 17:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 17:24	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 17:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 17:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/13/18 17:24	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 17:24	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 17:24	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 17:24	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 17:24	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 17:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 17:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 17:24	106-93-4	
1,2-Dichlorobenzene	0.63J	ug/L	1.0	0.49	1		06/13/18 17:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/13/18 17:24	541-73-1	
1,4-Dichlorobenzene	2.5	ug/L	1.0	0.58	1		06/13/18 17:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 17:24	75-71-8	
1,1-Dichloroethane	4.1	ug/L	1.0	0.41	1		06/13/18 17:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 17:24	107-06-2	
1,1-Dichloroethene	1.7	ug/L	1.0	0.72	1		06/13/18 17:24	75-35-4	
cis-1,2-Dichloroethene	28.9	ug/L	1.0	0.66	1		06/13/18 17:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 17:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 17:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 17:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 17:24	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 17:24	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 17:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 17:24	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 17:24	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 17:24	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 17:24	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: **GW-018876-060618-SAG-010** Lab ID: **265835010** Collected: 06/06/18 11:40 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1			06/13/18 17:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1			06/13/18 17:24	1634-04-4	
Styrene	ND	ug/L	1.0	0.50	1			06/13/18 17:24	100-42-5	L1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1			06/13/18 17:24	79-34-5	
Tetrachloroethene	44.7	ug/L	1.0	0.78	1			06/13/18 17:24	127-18-4	
Toluene	ND	ug/L	1.0	0.31	1			06/13/18 17:24	108-88-3	
1,2,4-Trichlorobenzene	1.4	ug/L	1.0	0.47	1			06/13/18 17:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1			06/13/18 17:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1			06/13/18 17:24	79-00-5	
Trichloroethene	10.8	ug/L	1.0	0.34	1			06/13/18 17:24	79-01-6	
Trichlorofluoromethane	3.4	ug/L	1.0	0.51	1			06/13/18 17:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/13/18 17:24	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1			06/13/18 17:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/13/18 17:24	108-67-8	
Vinyl chloride	2.4	ug/L	1.0	0.60	1			06/13/18 17:24	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/13/18 17:24	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	101	%.	81-119		1			06/13/18 17:24	17060-07-0	
Dibromofluoromethane (S)	92	%.	82-114		1			06/13/18 17:24	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	82-120		1			06/13/18 17:24	460-00-4	
Toluene-d8 (S)	102	%.	82-109		1			06/13/18 17:24	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: Trip Blank	Lab ID: 265835011	Collected: 06/04/18 00:00	Received: 06/07/18 09:25	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/12/18 22:05	67-64-1	
Benzene	ND	ug/L	1.0	0.20	1		06/12/18 22:05	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/12/18 22:05	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/12/18 22:05	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/12/18 22:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/12/18 22:05	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/12/18 22:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/12/18 22:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/12/18 22:05	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/12/18 22:05	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/12/18 22:05	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/12/18 22:05	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/12/18 22:05	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/12/18 22:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/12/18 22:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/12/18 22:05	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/12/18 22:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/12/18 22:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.58	1		06/12/18 22:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/12/18 22:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/12/18 22:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/12/18 22:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/12/18 22:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.66	1		06/12/18 22:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/12/18 22:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/12/18 22:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/12/18 22:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/12/18 22:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/12/18 22:05	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/12/18 22:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/12/18 22:05	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/12/18 22:05	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/12/18 22:05	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/12/18 22:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1		06/12/18 22:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1		06/12/18 22:05	1634-04-4	
Styrene	ND	ug/L	1.0	0.50	1		06/12/18 22:05	100-42-5	L1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1		06/12/18 22:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.78	1		06/12/18 22:05	127-18-4	
Toluene	ND	ug/L	1.0	0.31	1		06/12/18 22:05	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.47	1		06/12/18 22:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		06/12/18 22:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1		06/12/18 22:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.34	1		06/12/18 22:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1		06/12/18 22:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1		06/12/18 22:05	76-13-1	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
 Pace Project No.: 265835

Sample: Trip Blank	Lab ID: 265835011		Collected: 06/04/18 00:00	Received: 06/07/18 09:25	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1		06/12/18 22:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1		06/12/18 22:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1		06/12/18 22:05	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1		06/12/18 22:05	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%.	81-119		1		06/12/18 22:05	17060-07-0	
Dibromofluoromethane (S)	93	%.	82-114		1		06/12/18 22:05	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	82-120		1		06/12/18 22:05	460-00-4	
Toluene-d8 (S)	102	%.	82-109		1		06/12/18 22:05	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060418-SDL-101 Lab ID: 265835012 Collected: 06/04/18 13:10 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					Analyzed	CAS No.	Qual
			Limit	MDL	DF	Prepared				
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 17:51	67-64-1		
Benzene	ND	ug/L	1.0	0.20	1		06/13/18 17:51	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 17:51	75-27-4		
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 17:51	75-25-2		
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 17:51	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 17:51	78-93-3		
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 17:51	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 17:51	56-23-5		
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/13/18 17:51	108-90-7		
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 17:51	75-00-3		
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 17:51	67-66-3		
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 17:51	74-87-3		
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 17:51	110-82-7		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 17:51	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 17:51	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 17:51	106-93-4		
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/13/18 17:51	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/13/18 17:51	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	1.0	0.58	1		06/13/18 17:51	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 17:51	75-71-8		
1,1-Dichloroethane	0.61J	ug/L	1.0	0.41	1		06/13/18 17:51	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 17:51	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 17:51	75-35-4		
cis-1,2-Dichloroethene	6.0	ug/L	1.0	0.66	1		06/13/18 17:51	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 17:51	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 17:51	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 17:51	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 17:51	10061-02-6		
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 17:51	100-41-4		
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 17:51	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 17:51	98-82-8		
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 17:51	79-20-9		
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 17:51	108-87-2		
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 17:51	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1		06/13/18 17:51	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1		06/13/18 17:51	1634-04-4		
Styrene	ND	ug/L	1.0	0.50	1		06/13/18 17:51	100-42-5		L1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1		06/13/18 17:51	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	0.78	1		06/13/18 17:51	127-18-4		
Toluene	ND	ug/L	1.0	0.31	1		06/13/18 17:51	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.47	1		06/13/18 17:51	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		06/13/18 17:51	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1		06/13/18 17:51	79-00-5		
Trichloroethene	ND	ug/L	1.0	0.34	1		06/13/18 17:51	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1		06/13/18 17:51	75-69-4		

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: GW-018876-060418-SDL-101 Lab ID: 265835012 Collected: 06/04/18 13:10 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report				Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF					
8260B MSV Water, Extend	Analytical Method: EPA 8260B									
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/13/18 17:51	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1			06/13/18 17:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/13/18 17:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1			06/13/18 17:51	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/13/18 17:51	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	101	%.	81-119		1			06/13/18 17:51	17060-07-0	
Dibromofluoromethane (S)	94	%.	82-114		1			06/13/18 17:51	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	82-120		1			06/13/18 17:51	460-00-4	
Toluene-d8 (S)	102	%.	82-109		1			06/13/18 17:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060418-SDL-102	Lab ID: 265835013	Collected: 06/04/18 14:12	Received: 06/07/18 09:25	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.34	1	06/14/18 08:00	06/14/18 13:42	12674-11-2	R1
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 13:42	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 13:42	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 13:42	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 13:42	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 13:42	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.24	1	06/14/18 08:00	06/14/18 13:42	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	58	%.	17-144		1	06/14/18 08:00	06/14/18 13:42	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 18:18	67-64-1	
Benzene	0.20J	ug/L	1.0	0.20	1		06/13/18 18:18	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 18:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 18:18	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 18:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 18:18	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 18:18	75-15-0	M1
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 18:18	56-23-5	M1
Chlorobenzene	142	ug/L	10.0	5.3	10		06/14/18 13:30	108-90-7	R1
Chloroethane	4.7	ug/L	1.0	0.52	1		06/13/18 18:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 18:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 18:18	74-87-3	M1
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 18:18	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 18:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 18:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 18:18	106-93-4	
1,2-Dichlorobenzene	90.2	ug/L	1.0	0.49	1		06/13/18 18:18	95-50-1	M1,R1
1,3-Dichlorobenzene	141	ug/L	10.0	5.9	10		06/14/18 13:30	541-73-1	R1
1,4-Dichlorobenzene	601	ug/L	10.0	5.8	10		06/14/18 13:30	106-46-7	R1
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 18:18	75-71-8	
1,1-Dichloroethane	41.3	ug/L	1.0	0.41	1		06/13/18 18:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 18:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 18:18	75-35-4	
cis-1,2-Dichloroethene	7.3	ug/L	1.0	0.66	1		06/13/18 18:18	156-59-2	
trans-1,2-Dichloroethene	0.57J	ug/L	1.0	0.46	1		06/13/18 18:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 18:18	78-87-5	M1
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 18:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 18:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 18:18	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 18:18	591-78-6	
Isopropylbenzene (Cumene)	0.64J	ug/L	10.0	0.43	1		06/13/18 18:18	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 18:18	79-20-9	
Methylcyclohexane	3.3J	ug/L	10.0	1.4	1		06/13/18 18:18	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 18:18	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: GW-018876-060418-SDL-102 Lab ID: 265835013 Collected: 06/04/18 14:12 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1			06/13/18 18:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1			06/13/18 18:18	1634-04-4	M1
Styrene	ND	ug/L	1.0	0.50	1			06/13/18 18:18	100-42-5	L1,M0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1			06/13/18 18:18	79-34-5	
Tetrachloroethene	1.2	ug/L	1.0	0.78	1			06/13/18 18:18	127-18-4	
Toluene	ND	ug/L	1.0	0.31	1			06/13/18 18:18	108-88-3	
1,2,4-Trichlorobenzene	126	ug/L	1.0	0.47	1			06/13/18 18:18	120-82-1	M1,R1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1			06/13/18 18:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1			06/13/18 18:18	79-00-5	
Trichloroethene	3.6	ug/L	1.0	0.34	1			06/13/18 18:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1			06/13/18 18:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/13/18 18:18	76-13-1	
1,2,4-Trimethylbenzene	3.6	ug/L	1.0	0.46	1			06/13/18 18:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/13/18 18:18	108-67-8	
Vinyl chloride	0.82J	ug/L	1.0	0.60	1			06/13/18 18:18	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/13/18 18:18	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	100	%.	81-119		1			06/13/18 18:18	17060-07-0	
Dibromofluoromethane (S)	94	%.	82-114		1			06/13/18 18:18	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	82-120		1			06/13/18 18:18	460-00-4	
Toluene-d8 (S)	101	%.	82-109		1			06/13/18 18:18	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060518-SDL-103 Lab ID: 265835014 Collected: 06/05/18 10:55 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					Analyzed	CAS No.	Qual
			Limit	MDL	DF	Prepared				
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 18:44	67-64-1		
Benzene	ND	ug/L	1.0	0.20	1		06/13/18 18:44	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 18:44	75-27-4		
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 18:44	75-25-2		
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 18:44	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 18:44	78-93-3		
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 18:44	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 18:44	56-23-5		
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/13/18 18:44	108-90-7		
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 18:44	75-00-3		
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 18:44	67-66-3		
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 18:44	74-87-3		
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 18:44	110-82-7		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 18:44	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 18:44	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 18:44	106-93-4		
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/13/18 18:44	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/13/18 18:44	541-73-1		
1,4-Dichlorobenzene	3.0	ug/L	1.0	0.58	1		06/13/18 18:44	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 18:44	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/13/18 18:44	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 18:44	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 18:44	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.66	1		06/13/18 18:44	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 18:44	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 18:44	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 18:44	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 18:44	10061-02-6		
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 18:44	100-41-4		
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 18:44	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 18:44	98-82-8		
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 18:44	79-20-9		
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 18:44	108-87-2		
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 18:44	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1		06/13/18 18:44	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1		06/13/18 18:44	1634-04-4		
Styrene	ND	ug/L	1.0	0.50	1		06/13/18 18:44	100-42-5		L1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1		06/13/18 18:44	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	0.78	1		06/13/18 18:44	127-18-4		
Toluene	ND	ug/L	1.0	0.31	1		06/13/18 18:44	108-88-3		
1,2,4-Trichlorobenzene	2.6	ug/L	1.0	0.47	1		06/13/18 18:44	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		06/13/18 18:44	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1		06/13/18 18:44	79-00-5		
Trichloroethene	ND	ug/L	1.0	0.34	1		06/13/18 18:44	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1		06/13/18 18:44	75-69-4		

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: GW-018876-060518-SDL-103 Lab ID: 265835014 Collected: 06/05/18 10:55 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report				Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF					
8260B MSV Water, Extend	Analytical Method: EPA 8260B									
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/13/18 18:44	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1			06/13/18 18:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/13/18 18:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1			06/13/18 18:44	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/13/18 18:44	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	100	%.	81-119		1			06/13/18 18:44	17060-07-0	
Dibromofluoromethane (S)	93	%.	82-114		1			06/13/18 18:44	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	82-120		1			06/13/18 18:44	460-00-4	
Toluene-d8 (S)	102	%.	82-109		1			06/13/18 18:44	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060518-SDL-104 Lab ID: 265835015 Collected: 06/05/18 13:30 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report						
			Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.34	1	06/14/18 08:00	06/14/18 18:13	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 18:13	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 18:13	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 18:13	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 18:13	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 18:13	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.24	1	06/14/18 08:00	06/14/18 18:13	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	126	%.	17-144		1	06/14/18 08:00	06/14/18 18:13	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 19:11	67-64-1	
Benzene	ND	ug/L	1.0	0.20	1		06/13/18 19:11	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 19:11	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 19:11	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 19:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 19:11	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 19:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 19:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/13/18 19:11	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 19:11	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 19:11	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 19:11	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 19:11	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 19:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 19:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 19:11	106-93-4	
1,2-Dichlorobenzene	0.64J	ug/L	1.0	0.49	1		06/13/18 19:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/13/18 19:11	541-73-1	
1,4-Dichlorobenzene	1.1	ug/L	1.0	0.58	1		06/13/18 19:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 19:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/13/18 19:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 19:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 19:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.66	1		06/13/18 19:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 19:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 19:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 19:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 19:11	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 19:11	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 19:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 19:11	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 19:11	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 19:11	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 19:11	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: GW-018876-060518-SDL-104 Lab ID: 265835015 Collected: 06/05/18 13:30 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1			06/13/18 19:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1			06/13/18 19:11	1634-04-4	
Styrene	ND	ug/L	1.0	0.50	1			06/13/18 19:11	100-42-5	L1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1			06/13/18 19:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.78	1			06/13/18 19:11	127-18-4	
Toluene	ND	ug/L	1.0	0.31	1			06/13/18 19:11	108-88-3	
1,2,4-Trichlorobenzene	0.57J	ug/L	1.0	0.47	1			06/13/18 19:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1			06/13/18 19:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1			06/13/18 19:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.34	1			06/13/18 19:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1			06/13/18 19:11	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/13/18 19:11	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1			06/13/18 19:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/13/18 19:11	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1			06/13/18 19:11	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/13/18 19:11	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	101	%.	81-119		1			06/13/18 19:11	17060-07-0	
Dibromofluoromethane (S)	93	%.	82-114		1			06/13/18 19:11	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	82-120		1			06/13/18 19:11	460-00-4	
Toluene-d8 (S)	101	%.	82-109		1			06/13/18 19:11	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060518-SDL-105 Lab ID: 265835016 Collected: 06/05/18 14:35 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report						
			Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.34	1	06/14/18 08:00	06/14/18 18:33	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 18:33	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 18:33	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 18:33	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 18:33	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 18:33	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.24	1	06/14/18 08:00	06/14/18 18:33	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	99	%.	17-144		1	06/14/18 08:00	06/14/18 18:33	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 19:38	67-64-1	
Benzene	ND	ug/L	1.0	0.20	1		06/13/18 19:38	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 19:38	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 19:38	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 19:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 19:38	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 19:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 19:38	56-23-5	
Chlorobenzene	0.71J	ug/L	1.0	0.53	1		06/13/18 19:38	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 19:38	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 19:38	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 19:38	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 19:38	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 19:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 19:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 19:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/13/18 19:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/13/18 19:38	541-73-1	
1,4-Dichlorobenzene	0.75J	ug/L	1.0	0.58	1		06/13/18 19:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 19:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/13/18 19:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 19:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 19:38	75-35-4	
cis-1,2-Dichloroethene	3.2	ug/L	1.0	0.66	1		06/13/18 19:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 19:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 19:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 19:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 19:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 19:38	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 19:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 19:38	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 19:38	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 19:38	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 19:38	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: GW-018876-060518-SDL-105 Lab ID: 265835016 Collected: 06/05/18 14:35 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1			06/13/18 19:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1			06/13/18 19:38	1634-04-4	
Styrene	ND	ug/L	1.0	0.50	1			06/13/18 19:38	100-42-5	L1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1			06/13/18 19:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.78	1			06/13/18 19:38	127-18-4	
Toluene	ND	ug/L	1.0	0.31	1			06/13/18 19:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.47	1			06/13/18 19:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1			06/13/18 19:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1			06/13/18 19:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.34	1			06/13/18 19:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1			06/13/18 19:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/13/18 19:38	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1			06/13/18 19:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/13/18 19:38	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1			06/13/18 19:38	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/13/18 19:38	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	99	%.	81-119		1			06/13/18 19:38	17060-07-0	
Dibromofluoromethane (S)	95	%.	82-114		1			06/13/18 19:38	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	82-120		1			06/13/18 19:38	460-00-4	
Toluene-d8 (S)	101	%.	82-109		1			06/13/18 19:38	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: GW-018876-060618-SDL-106 **Lab ID: 265835017** Collected: 06/06/18 10:25 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					Analyzed	CAS No.	Qual
			Limit	MDL	DF	Prepared				
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
Acetone	10.6J	ug/L	25.0	8.2	1		06/13/18 20:05	67-64-1		
Benzene	1.1	ug/L	1.0	0.20	1		06/13/18 20:05	71-43-2		
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 20:05	75-27-4		
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 20:05	75-25-2		
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 20:05	74-83-9		
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 20:05	78-93-3		
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 20:05	75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 20:05	56-23-5		
Chlorobenzene	4.7	ug/L	1.0	0.53	1		06/13/18 20:05	108-90-7		
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 20:05	75-00-3		
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 20:05	67-66-3		
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 20:05	74-87-3		
Cyclohexane	5.0J	ug/L	10.0	1.6	1		06/13/18 20:05	110-82-7		
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 20:05	96-12-8		
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 20:05	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 20:05	106-93-4		
1,2-Dichlorobenzene	0.90J	ug/L	1.0	0.49	1		06/13/18 20:05	95-50-1		
1,3-Dichlorobenzene	3.0	ug/L	1.0	0.59	1		06/13/18 20:05	541-73-1		
1,4-Dichlorobenzene	11.3	ug/L	1.0	0.58	1		06/13/18 20:05	106-46-7		
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 20:05	75-71-8		
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/13/18 20:05	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 20:05	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 20:05	75-35-4		
cis-1,2-Dichloroethene	0.98J	ug/L	1.0	0.66	1		06/13/18 20:05	156-59-2		
trans-1,2-Dichloroethene	0.51J	ug/L	1.0	0.46	1		06/13/18 20:05	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 20:05	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 20:05	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 20:05	10061-02-6		
Ethylbenzene	12.5	ug/L	1.0	0.45	1		06/13/18 20:05	100-41-4		
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 20:05	591-78-6		
Isopropylbenzene (Cumene)	16.2	ug/L	10.0	0.43	1		06/13/18 20:05	98-82-8		
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 20:05	79-20-9		
Methylcyclohexane	4.6J	ug/L	10.0	1.4	1		06/13/18 20:05	108-87-2		
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 20:05	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1		06/13/18 20:05	108-10-1		
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1		06/13/18 20:05	1634-04-4		
Styrene	ND	ug/L	1.0	0.50	1		06/13/18 20:05	100-42-5		L1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1		06/13/18 20:05	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	0.78	1		06/13/18 20:05	127-18-4		
Toluene	ND	ug/L	1.0	0.31	1		06/13/18 20:05	108-88-3		
1,2,4-Trichlorobenzene	1.1	ug/L	1.0	0.47	1		06/13/18 20:05	120-82-1		
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		06/13/18 20:05	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1		06/13/18 20:05	79-00-5		
Trichloroethene	ND	ug/L	1.0	0.34	1		06/13/18 20:05	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1		06/13/18 20:05	75-69-4		

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: GW-018876-060618-SDL-106 Lab ID: 265835017 Collected: 06/06/18 10:25 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report				Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF					
8260B MSV Water, Extend	Analytical Method: EPA 8260B									
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/13/18 20:05	76-13-1	
1,2,4-Trimethylbenzene	3.7	ug/L	1.0	0.46	1			06/13/18 20:05	95-63-6	
1,3,5-Trimethylbenzene	3.0	ug/L	1.0	0.62	1			06/13/18 20:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1			06/13/18 20:05	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/13/18 20:05	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	99	%.	81-119		1			06/13/18 20:05	17060-07-0	
Dibromofluoromethane (S)	93	%.	82-114		1			06/13/18 20:05	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	82-120		1			06/13/18 20:05	460-00-4	
Toluene-d8 (S)	102	%.	82-109		1			06/13/18 20:05	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: **GW-018876-060618-SDL-107** Lab ID: **265835018** Collected: 06/06/18 11:10 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report						
			Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	1.0	0.68	2	06/14/18 08:00	06/15/18 11:34	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.0	1.0	2	06/14/18 08:00	06/15/18 11:34	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	1.0	1.0	2	06/14/18 08:00	06/15/18 11:34	11141-16-5	
PCB-1242 (Aroclor 1242)	15.1	ug/L	1.0	1.0	2	06/14/18 08:00	06/15/18 11:34	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	1.0	1.0	2	06/14/18 08:00	06/15/18 11:34	12672-29-6	
PCB-1254 (Aroclor 1254)	4.3	ug/L	1.0	1.0	2	06/14/18 08:00	06/15/18 11:34	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	1.0	0.47	2	06/14/18 08:00	06/15/18 11:34	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	76	%.	17-144		2	06/14/18 08:00	06/15/18 11:34	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 20:32	67-64-1	
Benzene	ND	ug/L	1.0	0.20	1		06/13/18 20:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 20:32	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 20:32	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 20:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 20:32	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 20:32	75-15-0	
Carbon tetrachloride	10.9	ug/L	1.0	0.42	1		06/13/18 20:32	56-23-5	
Chlorobenzene	7.7	ug/L	1.0	0.53	1		06/13/18 20:32	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 20:32	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 20:32	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 20:32	74-87-3	
Cyclohexane	2.5J	ug/L	10.0	1.6	1		06/13/18 20:32	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 20:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 20:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 20:32	106-93-4	
1,2-Dichlorobenzene	4.3	ug/L	1.0	0.49	1		06/13/18 20:32	95-50-1	
1,3-Dichlorobenzene	9.1	ug/L	1.0	0.59	1		06/13/18 20:32	541-73-1	
1,4-Dichlorobenzene	21.7	ug/L	1.0	0.58	1		06/13/18 20:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 20:32	75-71-8	
1,1-Dichloroethane	1.9	ug/L	1.0	0.41	1		06/13/18 20:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 20:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 20:32	75-35-4	
cis-1,2-Dichloroethene	5.8	ug/L	1.0	0.66	1		06/13/18 20:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 20:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 20:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 20:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 20:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 20:32	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 20:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 20:32	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 20:32	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 20:32	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 20:32	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Sample: GW-018876-060618-SDL-107 Lab ID: 265835018 Collected: 06/06/18 11:10 Received: 06/07/18 09:25 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	6.0	ug/L	5.0	0.86	1			06/13/18 20:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1			06/13/18 20:32	1634-04-4	
Styrene	ND	ug/L	1.0	0.50	1			06/13/18 20:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1			06/13/18 20:32	79-34-5	
Tetrachloroethene	8.0	ug/L	1.0	0.78	1			06/13/18 20:32	127-18-4	
Toluene	ND	ug/L	1.0	0.31	1			06/13/18 20:32	108-88-3	
1,2,4-Trichlorobenzene	26.4	ug/L	1.0	0.47	1			06/13/18 20:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1			06/13/18 20:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1			06/13/18 20:32	79-00-5	
Trichloroethene	3.1	ug/L	1.0	0.34	1			06/13/18 20:32	79-01-6	
Trichlorofluoromethane	0.89J	ug/L	1.0	0.51	1			06/13/18 20:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/13/18 20:32	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1			06/13/18 20:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/13/18 20:32	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1			06/13/18 20:32	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/13/18 20:32	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	100	%.	81-119		1			06/13/18 20:32	17060-07-0	
Dibromofluoromethane (S)	93	%.	82-114		1			06/13/18 20:32	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	82-120		1			06/13/18 20:32	460-00-4	
Toluene-d8 (S)	101	%.	82-109		1			06/13/18 20:32	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: Trip Blank	Lab ID: 265835019	Collected: 06/04/18 00:00	Received: 06/07/18 09:25	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/12/18 22:31	67-64-1	
Benzene	ND	ug/L	1.0	0.20	1		06/12/18 22:31	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/12/18 22:31	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/12/18 22:31	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/12/18 22:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/12/18 22:31	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/12/18 22:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/12/18 22:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/12/18 22:31	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/12/18 22:31	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/12/18 22:31	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/12/18 22:31	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/12/18 22:31	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/12/18 22:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/12/18 22:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/12/18 22:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/12/18 22:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/12/18 22:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.58	1		06/12/18 22:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/12/18 22:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/12/18 22:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/12/18 22:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/12/18 22:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.66	1		06/12/18 22:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/12/18 22:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/12/18 22:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/12/18 22:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/12/18 22:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/12/18 22:31	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/12/18 22:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/12/18 22:31	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/12/18 22:31	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/12/18 22:31	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/12/18 22:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1		06/12/18 22:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1		06/12/18 22:31	1634-04-4	
Styrene	ND	ug/L	1.0	0.50	1		06/12/18 22:31	100-42-5	L1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1		06/12/18 22:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.78	1		06/12/18 22:31	127-18-4	
Toluene	ND	ug/L	1.0	0.31	1		06/12/18 22:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.47	1		06/12/18 22:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		06/12/18 22:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1		06/12/18 22:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.34	1		06/12/18 22:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1		06/12/18 22:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1		06/12/18 22:31	76-13-1	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265835

Sample: Trip Blank		Lab ID: 265835019		Collected: 06/04/18 00:00		Received: 06/07/18 09:25		Matrix: Water		
Parameters	Results	Units	Report Limit				Prepared	Analyzed	CAS No.	Qual
			MDL	DF	Prepared	Analyzed				
8260B MSV Water, Extend	Analytical Method: EPA 8260B									
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1			06/12/18 22:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/12/18 22:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1			06/12/18 22:31	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/12/18 22:31	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	101	%.	81-119		1			06/12/18 22:31	17060-07-0	
Dibromofluoromethane (S)	92	%.	82-114		1			06/12/18 22:31	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	82-120		1			06/12/18 22:31	460-00-4	
Toluene-d8 (S)	103	%.	82-109		1			06/12/18 22:31	2037-26-5	

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265835

QC Batch:	7640	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV Water, Extend
Associated Lab Samples:	265835001, 265835002, 265835003, 265835004, 265835005, 265835006, 265835007, 265835008, 265835009, 265835010, 265835011, 265835012, 265835013, 265835014, 265835015, 265835016, 265835017, 265835018, 265835019		

METHOD BLANK: 35809

Matrix: Water

Associated Lab Samples:	265835001, 265835002, 265835003, 265835004, 265835005, 265835006, 265835007, 265835008, 265835009, 265835010, 265835011, 265835012, 265835013, 265835014, 265835015, 265835016, 265835017, 265835018, 265835019
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Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.38	06/12/18 21:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.53	06/12/18 21:38	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.59	06/12/18 21:38	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	10.0	1.4	06/12/18 21:38	
1,1-Dichloroethane	ug/L	ND	1.0	0.41	06/12/18 21:38	
1,1-Dichloroethene	ug/L	ND	1.0	0.72	06/12/18 21:38	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.47	06/12/18 21:38	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.46	06/12/18 21:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	0.55	06/12/18 21:38	
1,2-Dibromoethane (EDB)	ug/L	ND	2.0	0.28	06/12/18 21:38	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.49	06/12/18 21:38	
1,2-Dichloroethane	ug/L	ND	1.0	0.67	06/12/18 21:38	
1,2-Dichloropropane	ug/L	ND	1.0	0.60	06/12/18 21:38	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.62	06/12/18 21:38	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.59	06/12/18 21:38	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.58	06/12/18 21:38	
2-Butanone (MEK)	ug/L	ND	5.0	3.2	06/12/18 21:38	
2-Hexanone	ug/L	ND	5.0	0.89	06/12/18 21:38	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	0.86	06/12/18 21:38	
Acetone	ug/L	ND	25.0	8.2	06/12/18 21:38	
Benzene	ug/L	ND	1.0	0.20	06/12/18 21:38	
Bromodichloromethane	ug/L	ND	1.0	0.36	06/12/18 21:38	
Bromoform	ug/L	ND	1.0	0.55	06/12/18 21:38	
Bromomethane	ug/L	ND	2.0	0.95	06/12/18 21:38	
Carbon disulfide	ug/L	ND	10.0	0.79	06/12/18 21:38	
Carbon tetrachloride	ug/L	ND	1.0	0.42	06/12/18 21:38	
Chlorobenzene	ug/L	ND	1.0	0.53	06/12/18 21:38	
Chloroethane	ug/L	ND	1.0	0.52	06/12/18 21:38	
Chloroform	ug/L	ND	1.0	0.58	06/12/18 21:38	
Chloromethane	ug/L	ND	1.0	0.38	06/12/18 21:38	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.66	06/12/18 21:38	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.22	06/12/18 21:38	
Cyclohexane	ug/L	ND	10.0	1.6	06/12/18 21:38	
Dibromochloromethane	ug/L	ND	1.0	0.31	06/12/18 21:38	
Dichlorodifluoromethane	ug/L	ND	1.0	0.48	06/12/18 21:38	
Ethylbenzene	ug/L	ND	1.0	0.45	06/12/18 21:38	
Isopropylbenzene (Cumene)	ug/L	ND	10.0	0.43	06/12/18 21:38	
Methyl acetate	ug/L	ND	10.0	1.5	06/12/18 21:38	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265835

METHOD BLANK: 35809

Matrix: Water

Associated Lab Samples: 265835001, 265835002, 265835003, 265835004, 265835005, 265835006, 265835007, 265835008, 265835009, 265835010, 265835011, 265835012, 265835013, 265835014, 265835015, 265835016, 265835017, 265835018, 265835019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methyl-tert-butyl ether	ug/L	ND	10.0	1.6	06/12/18 21:38	
Methylcyclohexane	ug/L	ND	10.0	1.4	06/12/18 21:38	
Methylene Chloride	ug/L	ND	1.0	0.50	06/12/18 21:38	
Styrene	ug/L	ND	1.0	0.50	06/12/18 21:38	
Tetrachloroethene	ug/L	ND	1.0	0.78	06/12/18 21:38	
Toluene	ug/L	ND	1.0	0.31	06/12/18 21:38	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.46	06/12/18 21:38	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.30	06/12/18 21:38	
Trichloroethene	ug/L	ND	1.0	0.34	06/12/18 21:38	
Trichlorofluoromethane	ug/L	ND	1.0	0.51	06/12/18 21:38	
Vinyl chloride	ug/L	ND	1.0	0.60	06/12/18 21:38	
Xylene (Total)	ug/L	ND	2.0	1.5	06/12/18 21:38	
1,2-Dichloroethane-d4 (S)	%.	100	81-119		06/12/18 21:38	
4-Bromofluorobenzene (S)	%.	99	82-120		06/12/18 21:38	
Dibromofluoromethane (S)	%.	95	82-114		06/12/18 21:38	
Toluene-d8 (S)	%.	104	82-109		06/12/18 21:38	

LABORATORY CONTROL SAMPLE: 35810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.2	112	72-134	
1,1,2,2-Tetrachloroethane	ug/L	50	66.8	134	51-158	
1,1,2-Trichloroethane	ug/L	50	64.2	128	78-131	
1,1-Dichloroethane	ug/L	50	62.4	125	69-151	
1,1-Dichloroethene	ug/L	50	64.0	128	64-158	
1,2,4-Trichlorobenzene	ug/L	50	65.6	131	51-163	
1,2,4-Trimethylbenzene	ug/L	50	59.0	118	63-137	
1,2-Dibromo-3-chloropropane	ug/L	50	54.5	109	58-124	
1,2-Dibromoethane (EDB)	ug/L	50	62.0	124	71-134	
1,2-Dichlorobenzene	ug/L	50	60.9	122	70-135	
1,2-Dichloroethane	ug/L	50	54.8	110	72-129	
1,2-Dichloropropane	ug/L	50	63.2	126	64-135	
1,3,5-Trimethylbenzene	ug/L	50	65.0	130	70-142	
1,3-Dichlorobenzene	ug/L	50	60.4	121	71-134	
1,4-Dichlorobenzene	ug/L	50	58.7	117	70-131	
2-Butanone (MEK)	ug/L	100	85.7	86	52-143	
2-Hexanone	ug/L	100	97.1	97	61-136	
4-Methyl-2-pentanone (MIBK)	ug/L	100	121	121	71-129	
Acetone	ug/L	100	62.2	62	48-224	
Benzene	ug/L	50	57.6	115	68-132	
Bromodichloromethane	ug/L	50	55.9	112	67-121	
Bromoform	ug/L	50	51.0	102	57-125	

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265835

LABORATORY CONTROL SAMPLE: 35810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	57.4	115	35-156	
Carbon disulfide	ug/L	100	130	130	47-141	
Carbon tetrachloride	ug/L	50	59.2	118	66-122	
Chlorobenzene	ug/L	50	59.2	118	71-126	
Chloroethane	ug/L	50	51.4	103	43-143	
Chloroform	ug/L	50	60.6	121	71-136	
Chloromethane	ug/L	50	58.0	116	47-123	
cis-1,2-Dichloroethene	ug/L	50	59.2	118	74-131	
cis-1,3-Dichloropropene	ug/L	50	56.5	113	78-120	
Dibromochloromethane	ug/L	50	55.0	110	65-115	
Dichlorodifluoromethane	ug/L	50	46.1	92	29-124	
Ethylbenzene	ug/L	50	60.3	121	68-129	
Isopropylbenzene (Cumene)	ug/L	50	58.5	117	64-129	
Methyl-tert-butyl ether	ug/L	100	121	121	59-130	
Methylene Chloride	ug/L	50	64.6	129	61-147	
Styrene	ug/L	50	66.8	134	77-128 L1	
Tetrachloroethene	ug/L	50	42.4	85	51-139	
Toluene	ug/L	50	60.3	121	60-133	
trans-1,2-Dichloroethene	ug/L	50	62.2	124	69-144	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	74-128	
Trichloroethene	ug/L	50	57.1	114	73-126	
Trichlorofluoromethane	ug/L	50	56.7	113	55-132	
Vinyl chloride	ug/L	50	57.3	115	50-133	
Xylene (Total)	ug/L	150	187	125	78-132	
1,2-Dichloroethane-d4 (S)	%.			99	81-119	
4-Bromofluorobenzene (S)	%.			101	82-120	
Dibromofluoromethane (S)	%.			104	82-114	
Toluene-d8 (S)	%.			103	82-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 36482
36483

Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD % Rec	% Rec Limits		Max	
		265835013 Result	Spike Conc.	Spike Conc.	MS Result				RPD	RPD	Qual	
1,1,1-Trichloroethane	ug/L	ND	50	50	55.9	61.4	112	123	66-142	9	11	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	70.5	70.1	141	140	39-171	1	13	
1,1,2-Trichloroethane	ug/L	ND	50	50	67.6	66.2	135	132	73-136	2	12	
1,1-Dichloroethane	ug/L	41.3	50	50	108	110	134	138	66-155	2	15	
1,1-Dichloroethene	ug/L	ND	50	50	74.6	74.6	148	148	33-181	0	34	
1,2,4-Trichlorobenzene	ug/L	126	50	50	99.9	147	-53	42	44-164	38	13 M1,R1	
1,2,4-Trimethylbenzene	ug/L	3.6	50	50	53.7	56.6	100	106	44-161	5	9	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	53.9	55.5	108	111	58-124	3	15	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	64.5	63.2	129	126	71-134	2	12	
1,2-Dichlorobenzene	ug/L	90.2	50	50	101	124	21	67	69-135	20	10 M1,R1	
1,2-Dichloroethane	ug/L	ND	50	50	58.0	58.0	116	116	36-159	0	10	

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265835

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		36482		36483													
Parameter	Units	265835013		MS Spike		MSD Spike		MS		MSD		% Rec		Max			
		Result	Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	% Rec	Limits	RPD	RPD	Qual	
1,2-Dichloropropane	ug/L	ND	50	50	67.3	67.3	135	135	68-132	0	11	M1					
1,3,5-Trimethylbenzene	ug/L	ND	50	50	58.0	61.5	116	123	62-149	6	12						
1,3-Dichlorobenzene	ug/L	141	50	50	127	175	-28	69	68-135	32	10	R1					
1,4-Dichlorobenzene	ug/L	601	50	50	342	496	-517	-210	49-153	37	9	R1					
2-Butanone (MEK)	ug/L	ND	100	100	122	112	122	112	10-189	9	23						
2-Hexanone	ug/L	ND	100	100	121	117	121	117	40-135	4	18						
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	131	127	131	127	30-177	3	10						
Acetone	ug/L	ND	100	100	102	98.9	101	98	44-223	3	14						
Benzene	ug/L	0.20J	50	50	61.5	61.1	123	122	66-139	1	10						
Bromodichloromethane	ug/L	ND	50	50	57.9	58.2	116	116	57-120	1	13						
Bromoform	ug/L	ND	50	50	51.5	53.7	103	107	48-128	4	13						
Bromomethane	ug/L	ND	50	50	62.4	63.3	125	127	10-187	2	32						
Carbon disulfide	ug/L	ND	100	100	141	146	141	146	47-141	3	322	M1					
Carbon tetrachloride	ug/L	ND	50	50	58.2	64.4	116	129	58-127	10	14	M1					
Chlorobenzene	ug/L	142	50	50	153	186	22	89	63-137	20	10	R1					
Chloroethane	ug/L	4.7	50	50	65.1	65.2	121	121	52-146	0	16						
Chloroform	ug/L	ND	50	50	66.2	65.6	132	131	74-137	1	9						
Chloromethane	ug/L	ND	50	50	67.9	66.4	136	133	41-127	2	10	M1					
cis-1,2-Dichloroethene	ug/L	7.3	50	50	67.7	69.9	121	125	71-138	3	16						
cis-1,3-Dichloropropene	ug/L	ND	50	50	50.7	53.2	101	106	32-145	5	12						
Dibromochloromethane	ug/L	ND	50	50	54.6	56.1	109	112	52-116	3	13						
Dichlorodifluoromethane	ug/L	ND	50	50	55.0	55.3	110	111	36-126	1	15						
Ethylbenzene	ug/L	ND	50	50	56.8	59.6	113	119	31-174	5	10						
Isopropylbenzene (Cumene)	ug/L	0.64J	50	50	53.3	57.5	105	114	56-139	8	12						
Methyl-tert-butyl ether	ug/L	ND	100	100	130	134	130	134	38-120	3	12	M1					
Methylene Chloride	ug/L	ND	50	50	70.2	69.9	140	140	61-146	0	15						
Styrene	ug/L	ND	50	50	63.5	65.9	127	132	77-128	4	14	M0					
Tetrachloroethene	ug/L	1.2	50	50	40.0	42.8	78	83	36-155	7	14						
Toluene	ug/L	ND	50	50	60.4	60.5	121	121	52-146	0	11						
trans-1,2-Dichloroethene	ug/L	0.57J	50	50	69.7	71.5	138	142	61-152	3	14						
trans-1,3-Dichloropropene	ug/L	ND	50	50	47.2	49.5	94	99	37-146	5	12						
Trichloroethene	ug/L	3.6	50	50	58.5	59.7	110	112	61-141	2	12						
Trichlorofluoromethane	ug/L	ND	50	50	67.0	69.4	134	139	51-141	4	13						
Vinyl chloride	ug/L	0.82J	50	50	70.2	69.8	139	138	22-156	1	26						
Xylene (Total)	ug/L	ND	150	150	176	184	117	123	78-132	5	7						
1,2-Dichloroethane-d4 (S)	%.						100	100	81-119								
4-Bromofluorobenzene (S)	%.						101	101	82-120								
Dibromofluoromethane (S)	%.						105	106	82-114								
Toluene-d8 (S)	%.						102	102	82-109								

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265835

QC Batch:	7928	Analysis Method:	EPA 8082A
QC Batch Method:	EPA 3510C	Analysis Description:	8082 GCS PCB
Associated Lab Samples:	265835003, 265835004, 265835005, 265835006, 265835007, 265835009, 265835010, 265835013, 265835015, 265835016, 265835018		

METHOD BLANK: 36791 Matrix: Water

Associated Lab Samples: 265835003, 265835004, 265835005, 265835006, 265835007, 265835009, 265835010, 265835013, 265835015,
265835016, 265835018

Parameter	Units	Blank Result	Reporting		Analyzed	Qualifiers
			Limit	MDL		
PCB-1016 (Aroclor 1016)	ug/L	ND	0.50	0.34	06/14/18 12:19	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.50	0.50	06/14/18 12:19	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.50	0.50	06/14/18 12:19	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.50	0.50	06/14/18 12:19	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.50	0.50	06/14/18 12:19	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.50	0.50	06/14/18 12:19	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.50	0.24	06/14/18 12:19	
Decachlorobiphenyl (S)	%.	56	17-144		06/14/18 12:19	

LABORATORY CONTROL SAMPLE: 36792

Parameter	Units	Spike Conc.	LCS		% Rec Limits	Qualifiers
			Result	% Rec		
PCB-1016 (Aroclor 1016)	ug/L	5	3.9	78	47-120	
PCB-1260 (Aroclor 1260)	ug/L	5	4.0	80	51-126	
Decachlorobiphenyl (S)	%.			63	17-144	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 36841 36842

Parameter	Units	265835013 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max	
			Spike Conc.	Conc.	Spike Conc.	Result					RPD	RPD
PCB-1016 (Aroclor 1016)	ug/L	ND	5	5	4.6	3.8	92	76	10-183	19	18	R1
PCB-1260 (Aroclor 1260)	ug/L	ND	5	5	4.5	3.8	90	75	19-141	18	27	
Decachlorobiphenyl (S)	%.						65	45	17-144			

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QUALIFIERS

Project: Southland Circle Site - 018876
Pace Project No.: 265835

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Southland Circle Site - 018876
Pace Project No.: 265835

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
265835003	GW-018876-060418-SAG-003	EPA 3510C	7928	EPA 8082A	8011
265835004	GW-018876-060418-SAG-004	EPA 3510C	7928	EPA 8082A	8011
265835005	GW-018876-060518-SAG-005	EPA 3510C	7928	EPA 8082A	8011
265835006	GW-018876-060518-SAG-006	EPA 3510C	7928	EPA 8082A	8011
265835007	GW-018876-060518-SAG-007	EPA 3510C	7928	EPA 8082A	8011
265835009	GW-018876-060618-SAG-009	EPA 3510C	7928	EPA 8082A	8011
265835010	GW-018876-060618-SAG-010	EPA 3510C	7928	EPA 8082A	8011
265835013	GW-018876-060418-SDL-102	EPA 3510C	7928	EPA 8082A	8011
265835015	GW-018876-060518-SDL-104	EPA 3510C	7928	EPA 8082A	8011
265835016	GW-018876-060518-SDL-105	EPA 3510C	7928	EPA 8082A	8011
265835018	GW-018876-060618-SDL-107	EPA 3510C	7928	EPA 8082A	8011
265835001	GW-018876-060418-SAG-001	EPA 8260B	7640		
265835002	GW-018876-060418-SAG-002	EPA 8260B	7640		
265835003	GW-018876-060418-SAG-003	EPA 8260B	7640		
265835004	GW-018876-060418-SAG-004	EPA 8260B	7640		
265835005	GW-018876-060518-SAG-005	EPA 8260B	7640		
265835006	GW-018876-060518-SAG-006	EPA 8260B	7640		
265835007	GW-018876-060518-SAG-007	EPA 8260B	7640		
265835008	GW-018876-060618-SAG-008	EPA 8260B	7640		
265835009	GW-018876-060618-SAG-009	EPA 8260B	7640		
265835010	GW-018876-060618-SAG-010	EPA 8260B	7640		
265835011	Trip Blank	EPA 8260B	7640		
265835012	GW-018876-060418-SDL-101	EPA 8260B	7640		
265835013	GW-018876-060418-SDL-102	EPA 8260B	7640		
265835014	GW-018876-060518-SDL-103	EPA 8260B	7640		
265835015	GW-018876-060518-SDL-104	EPA 8260B	7640		
265835016	GW-018876-060518-SDL-105	EPA 8260B	7640		
265835017	GW-018876-060618-SDL-106	EPA 8260B	7640		
265835018	GW-018876-060618-SDL-107	EPA 8260B	7640		
265835019	Trip Blank	EPA 8260B	7640		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OFF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company- Address:	GHD	Report To:	Terefe Mazengia
Email:	3075 Brookridge Blvd. Suite 470 Duluth, GA 30096	Copy To:	Paul McMahon
Phone:	tereferemazengia@ghd.com	Purchase Order #:	
Requested Due Date:	6/18/2014	Project Name:	Southland Circle Site - 018876
Project #:		Pace Profile #:	1483

Section B
Required Project Information:
Page : 1 of 2

Attention:	Julie Wisniewski	Company Name:	THD
Address:		Regulatory Agency:	
Pace Quote:		State / Location:	
Pace Project Manager:	betsy.mcdaniel@pacolabs.com	GA	

Section C
Invoice Information:

ITEM #	SAMPLE ID <small>(A-Z, 0-9, -,)</small> Sample Ids must be unique	COLLECTED		Preservatives		ANALYSES TEST		REQUESTED ANALYSIS Filtered (Y/N)	
		MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	DATE 6/1/18	TIME 10:10	MATRIX CODE COCE DW WT WW P SL CL WP AR OT TS	START END	DATE 6/1/18	TIME 13:00	HNO3 NaOH HCl Na2S2O3 Methanol Other
1	GHW-018876-060418-SAG-001	X	X	X	X	X	X	X	X
2	GHW-018876-060418-SAG-002	X	X	X	X	X	X	X	X
3	GHW-018876-060418-SAG-003	X	X	X	X	X	X	X	X
4	GHW-018876-060418-SAG-004	X	X	X	X	X	X	X	X
5	GHW-018876-060418-SAG-005	X	X	X	X	X	X	X	X
6	GHW-018876-060518-SAG-006	X	X	X	X	X	X	X	X
7	GHW-018876-060518-SAG-007	X	X	X	X	X	X	X	X
8	GHW-018876-060618-SAG-008	X	X	X	X	X	X	X	X
9	GHW-018876-060618-SAG-009	X	X	X	X	X	X	X	X
	Trip Blank								

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Stephanie Lindo	6/6/18	14:03	Terefe Mazengia	6/7/18	8:50	
John Shultz	6/7/18	9:25	Chanel Fenzl	6/7/18	9:50	
for details						

WO# : 265835

AMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

Steven Grace

SIGNATURE of SAMPLER:

TEMP IN C

 Received on
 (y/n)
 Custodial
Sealed
(y/n)
 Samples
Intact
(y/n)

 (y/n)
 Custodial
Sealed
(y/n)
 Samples
Intact
(y/n)

CHAIN-OFF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company:	GHD	Report To:	Terefe Mazengia
Address:	3075 Breckinridge Blvd, Suite 470	Copy To:	Paul McMahon
Email:	terefe.mazengia@ghd.com	Purchase Order #:	
Phone:	678-280-2140	Project Name:	Southland Circle Site - 018976
Requested Due Date:		Project #:	

Section B
Required Project Information:

Attention:	Julie Wisniewski
Company Name:	GHD
Address:	
Pace Quicte:	
Pace Project Manager:	betsy.mcdaniel@pacealabs.com
Pace Profile #:	1483

Section C
Invoicing Information:

#	ITEM	COLLECTED		PRESERVATIVES		ANALYSES TEST		REQUESTED ANALYSIS FILTERED (Y/N)		RESIDUAL CHLORINE (Y/N)
		DATE	TIME	DATE	TIME	VOC 8260 w/ sodium bisulfite	PCBs by 802	PCBs by 1668	Percent Moisture	
1	GW - 018876 - 060418 - SDL - 101	(6/14/18	13:00	(6/14/18	14:12	X	X	X	X	
2	GW - 018876 - 060418 - SDL - 102	(6/14/18	10:55	(6/15/18	13:30	X	X	X	X	
3	GW - 018876 - 060518 - SDL - 103	(6/15/18	14:35	(6/15/18	14:35	X	X	X	X	
4	GW - 018876 - 060518 - SDL - 104	(6/16/18	10:25	(6/16/18	11:10	X	X	X	X	
5	GW - 018876 - 060518 - SDL - 105	(6/16/18	11:10							
6	GW - 018876 - 060618 - SDL - 106									
7	GW - 018876 - 060618 - SDL - 107									
8	Trip Blank									
9										
10										
11										
12										
ADDITIONAL COMMENTS		RELINQUISHED BY AFFILIATION		ACCEPTED BY AFFILIATION		SAMPLE CONDITIONS				
See below for details		Stephanie Lindo		14:03		TIME		TIME		
		Terefe Mazengia		8:50		6/18/18		2:50		
		John McDaniel		7:25		6/18/18		2:55		
		Betsy McDaniel		11:00		6/18/18		7:00		
		Samplers Name and Signature								
		PRINT NAME OF SAMPLER:								
		SIGNATURE OF SAMPLER:								

WO# : 265835
PM: 2 Due Date: 06/14/18
CLIENT: GHD
SAMPLER NAME AND SIGNATURE
**PRINT NAME OF SAMPLER:
Stephanie Lindo**
SIGNATURE OF SAMPLER:
**DATE Signed:
6/18/18**
**TEMP IN C
Received on
Customer Sample
Sealed
Samples intact
(Y/N)**

Sample Condition Upon Receipt

WO# : 265835

Client Name: GHDPM: BM
CLIENT: GHD

Due Date: 06/14/18

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Proj. Due Date:
Proj. Name:Custody Seal on Cooler/Box Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None Other

Thermometer Used

THERO82Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature

215°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining
contents: 6/7/18 CCR

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <i>collection time for 009 + 010</i> <i>Taken from container label</i>
-Includes date/time/ID/Analysis Matrix:	<u>GW</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

July 03, 2018

Terefe Mazengia
GHD
3075 Breckinridge Blvd
Suite 470
Duluth, GA 30096

RE: Project: Southland Circle Site - 018876
Pace Project No.: 265836

Dear Terefe Mazengia:

Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Paul McMahon, GHD
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Southland Circle Site - 018876
 Pace Project No.: 265836

Lab ID	Sample ID	Matrix	Date Collected	Date Received
265836001	GW018876-060418-SAG-003	Water	06/04/18 14:10	06/07/18 09:25
265836002	GW018876-060418-SAG-004	Water	06/04/18 15:40	06/07/18 09:25
265836003	GW018876-060518-SAG-005	Water	06/05/18 09:25	06/07/18 09:25
265836004	GW018876-060618-SAG-010	Water	06/06/18 11:40	06/07/18 09:25
265836005	GW018876-060418-SDL-102	Water	06/04/18 14:12	06/07/18 09:25
265836006	GW018876-060618-SDL-107	Water	06/06/18 11:10	06/07/18 09:25

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Required Client Information:

Company:	GHD	Report To:	Terefe Mazengia
Address:	3075 Breckinridge Blvd. Suite 470 Duluth, GA 30096	Copy To:	Paul McManamon
Email:	terefe.mazengia@ghd.com	Purchase Order #:	Southland Circle Site - 018876
Phone:	678-280-2140	Project Name:	
Requested Due Date:		Project #:	

Section B

Required Project Information:

Section C

Invoice Information:

Page: 1 of 2

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -, Sample IDs must be unique)	MATRIX Drinking Water Water Waste Water Product Soil/Sediment Oil Air Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED		Preservatives		ANALYSES TEST		REQUESTED ANALYSIS FILTERED (Y/N)	
				START	END	DATE	TIME	DATE	TIME	DATE	TIME
1	GWU-018876-060418-SAG-001		6/1/18	10:01							X
2	GWU-018876-060418-SAG-002		6/1/18	13:00							X
3	GWU-018876-060418-SAG-003		6/1/18	14:10							X
4	GWU-018876-060418-SAG-004		6/1/18	15:40							X
5	GWU-018876-060418-SAG-005		6/1/18	9:25							X
6	GWU-018876-060518-SAG-006		6/1/18	11:40							X
7	GWU-018876-060518-SAG-007		6/1/18	11:45							X
8	GWU-018876-060618-SAG-008		6/1/18	9:20							X
9	GWU-018876-060618-SAG-009		6/1/18	9:20							X
10	GWU-018876-060618-SAG-010		6/1/18	9:20							X
11	Trip Blank										
12											
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS
See screen for details			Stephanie Lindo		6/6/18	14:03	Jos Terese		6/6/18	14:03	
			Terefe Mazengia		6/7/18	8:50	John Voss		6/7/18	8:50	
			John Fleet		6/7/18	9:25	Chadon French		6/7/18	9:25	
SAMPLER NAME AND SIGNATURE											
PRINT Name of SAMPLER:			<i>Stephanie Lindo</i>								
SIGNATURE of SAMPLER:			<i>Stephanie Lindo</i>								

WO# : 265836





CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:									
Company GHD	Report To: Terefe Mazengia	Copy To: Paul McManam	Attention: Julie Wisnewski	Company Name: GHD	Address: Pace Ductile								
Address 3075 Breckinridge Blvd, Suite 470 Duluth, GA 30096	Purchase Order #:	Project Name Southland Circle Site - 018876	Pace Project Manager: betsy.modarrel@pace-labs.com.	Regulatory Agency	State / Location GA								
Email terefe.mazengia@ghd.com	Fax 678-280-2140	Project # 1483	Pace Profile #										
Phone Requested Due Date:													
Residual Chlorine (Y/N)													
Requested Analysis Filtered (Y/N)													
SAMPLE ID One Character per box. (A-Z, 0-9, -,) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Sand Oil Wipe Air On-site Tissue	CODE DW WT WW P SL CL WP AR OT TS	MATRIX TYPE (G=GRAB C=COMP) (see Valid codes to left)	COLLECTED		Preservatives		Analyses Test		Y/N			
				START	END			VOC by 8260	PCBs by 8082	VOC B260 w/ sodium bisulfite	PCB Generators by 1668	Percent Moisture	MS/MSD
								NaOH	Na2S2O3	Methanol			
								HCl	HNO3	Cupresored			
								H2SO4					
1	GW-018876-060418-SDL-101		6/4/18	13:0					X				
2	GW-018876-060418-SDL-102		6/4/18	14:12					X	X			
3	GW-018876-060518-SDL-103		6/5/18	10:55					X				
4	GW-018876-060518-SPL-104		6/5/18	13:30					X	X			
5	GW-018876-060518-SDL-105		6/5/18	14:35					X	X			
6	GW-018876-060618-SDL-106		6/6/18	10:25					X				
7	GW-018876-060618-SDL-107		6/7/18	11:10					X	X			
8	Trips Blank												
9													
10													
11													
12													
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS			
See below for details		Stephanie Lindo 6/4/18 14:03		Stephanie Lindo 6/6/18 14:03		6/6/18		14:03					
		Terefe Mazengia 6/7/18 8:50		Terefe Mazengia 6/7/18 8:50		6/7/18		8:50					
		Julieta Lopez 6/7/18 7:25		Julieta Lopez 6/7/18 7:25		6/7/18		7:25					
		Chad Hulse 6/7/18 9:25		Chad Hulse 6/7/18 9:25		6/7/18		9:25					
SAMPLE NAME AND SIGNATURE													
PRINT Name of SAMPLER: Stephanie Lindo SIGNATURE of SAMPLER:													
TEMP IN C													
Received on _____													
Custodial Coordinator (Y/N) _____													
Samples intact (Y/N) _____													
Temp in F (Y/N) _____													

Pace Analytical

Sample Condition Upon Receipt

WO# : 265836

Client Name: GHD

PM: BM

Due Date: 06/28/18

CLIENT: GHD

Courier: FedEx UPS USPS Client Commercial Pace Other

Tracking #: _____

Proj. Due Date:
Proj. Name:Custody Seal on Cooler/Box Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None Other _____Thermometer Used THER082 Type of Ice: Wet Blue None Samples on ice, cooling process has begunCooler Temperature 21.5°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining
contents: RFJ 7/18 CTR

Temp should be above freezing to 6°C

Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. collection time for 009 + 010 <i>GW</i> Taken from container label
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <i>VOA</i> , coldform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Report Prepared for:

Eben Buchanan
PASI-Georgia
110 Technology Parkway
Peachtree Corners GA 30092

**REPORT OF
LABORATORY
ANALYSIS
FOR PCBs**

Report Information:

Pace Project #: 10434905
Sample Receipt Date: 06/08/2018
Client Project #: 265836 GHD
Client Sub PO #: N/A
State Cert #: N/A

This report has been reviewed by:



July 02, 2018

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com



Report of Laboratory Analysis

This report should not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

Report Prepared Date:

July 2, 2018



Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report provides results for six samples that were spiked with the Method 1668 internal standards and extracted. The extracts were then processed through cleanup procedures and analyzed as a screening determination for PCB content. All of the internal standard recoveries were within the ranges expected for this method. Since the method uses internal standard and isotope dilution procedures, the results have a built in correction for recovery and accurate results are expected. One method blank contained low levels of selected DiCB congeners within the reporting range. The associated samples contained these congeners at levels over ten times higher than found in the method blank. This indicates that the sample preparation procedures did not significantly contribute to the PCB content determined for the sample material. The lab spike recoveries were within the target range for this method.

REPORT OF LABORATORY ANALYSIS

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Page 7 of 42

Chain of Custody

WO# :10434905

Samples were sent directly to the Subcontracting Laboratory.

State Of Origin:

GA

Workorder: 265836 Workorder Name:Southland Circle Site - 018876

Report To:

Betsy McDaniel
Pace Analytical Atlanta
110 Technology Parkway
Peachtree Corners, GA 30092
Phone (770)734-4200

Owner Received Date: 6/7/2018 Results Requested By: 6/28/2018

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		Comments
						Preserved	Chilled	
1	GW018876-060418-SAG-003	PS	6/4/2018 14:10	265836001	Water	1	X	265835003
2	GW018876-060418-SAG-004	PS	6/4/2018 15:40	265836002	Water	1	X	004
3	GW018876-060518-SAG-005	PS	6/5/2018 09:25	265836003	Water	1	X	005
4	GW018876-060618-SAG-010	PS	6/6/2018 11:40	265836004	Water	1	X	010
5	GW018876-060418-SDL-102	RQS	6/4/2018 14:12	265836005	Water	1	X	013
6	GW018876-060618-SDL-107	PS	6/6/2018 11:10	265836006	Water	1	X	019

Transfers	Released By	Date/Time	Received By	Date/Time	Comments		
1	Nike Nguyen	6/7/18	Under Seal	6/7/18/00			
2							
3							

Cooler Temperature on Receipt	3.0 °C	Custody Seal Y or N	Received on Ice Y or N	Samples Intact Y or N
1				
2				
3				

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as since this information is available in the owner laboratory.



Document Name:
Sample Condition Upon Receipt Form

Document Revised: 02May2018

Page 1 of 2

Document No.:
F-MN-L-213-rev.23

Issuing Authority:
Pace Minnesota Quality Office

**Sample Condition
Upon Receipt**

Client Name:

Project #:

WO# : 10434905

Due Date: 06/28/18

PM: NB3

CLIENT: PASI-GA

Courier: Fed Ex UPS USPS Client

Commercial Pace SpeeDee Other: _____

Tracking Number: 741366643342, 741346643383Custody Seal on Cooler/Box Present? Yes NoSeals Intact? Yes No

Optional: Proj. Due Date: Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes NoThermometer Used: G87A9170600254
 G87A9155100842Type of Ice: Wet Blue None Dry MeltedCooler Temp Read (°C): M.9, 3.0Cooler Temp Corrected (°C): 4.9, 3.0Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C

Correction Factor: trueDate and Initials of Person Examining Contents: DN 6/8/18USDA Regulated Soil (N/A, water sample)Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.	
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container	
Is sufficient information available to reconcile the samples to the COC? Matrix: <u>SD WT</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.	
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N	
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed:	Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Lathan RobbergDate: 6/12/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Sample Receipt Form

Pace Analytical Services, LLC

Minnesota



Login Summary

Workorder: 10434905
Report Version: C
Min Sample Due: 06/28/2018 17:00
Max Sample Due: 06/28/2018 17:00

Client Work ID: 265836 GHD
Client: PASI-Georgia
Profile: 36743
Profile Desc: All Dioxin

Lab ID	Sample ID	Collected	Received	Report			Due Date
				Matrix	Properties	Location	
265836001	GW018876-060418-SAG-003	06/04/18 14:10	06/08/18 09:30	WT	J2F	GA	06/28/18
265836002	GW018876-060418-SAG-004	06/04/18 15:40	06/08/18 09:30	WT	J2F	GA	06/28/18
265836003	GW018876-060518-SAG-005	06/05/18 09:25	06/08/18 09:30	WT	J2F	GA	06/28/18
265836004	GW018876-060618-SAG-010	06/06/18 11:40	06/08/18 09:30	WT	J2F	GA	06/28/18
265836005	GW018876-060418-SDL-102	06/04/18 14:12	06/08/18 09:30	WT	J2F	GA	06/28/18
265836006	GW018876-060618-SDL-107	06/06/18 11:10	06/08/18 09:30	WT	J2F	GA	06/28/18

Section 1

Quality Control (QC) Summary



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

**PCB Congener Screening Analysis Results
LCS Analysis Results**

Lab Sample ID	LCS-62989	Matrix	Water
Filename	Y180624A_04	Dilution	NA
Injected By	BAL	Extracted	NA
Total Amount Extracted	1040 mL	Analyzed	06/24/2018 13:45
ICAL ID	Y180624A03		

Congener Group	Spiked ng	Found ng	Recovery %
Total MoCB	2.0	1.77	88
Total DiCB	2.0	1.67	83
Total TrCB	2.0	1.37	68
Total TeCB	3.0	3.22	107
Total PeCB	6.0	6.38	106
Total HxCB	5.0	4.98	100
Total HpCB	2.0	2.34	117
Total OcCB	2.0	2.06	103
Total NoCB	2.0	1.67	84
DeCB	2.0	2.48	124

ND = Not Detected

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Lab Sample ID LCS-62989
Filename Y180624A_04

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.382	2.0	0.920	46
13C-4-MoCB	3	6.472	2.0	0.992	50
13C-2,2'-DiCB	4	6.925	2.0	1.10	55
13C-4,4'-DiCB	15	9.572	2.0	1.13	57
13C-2,2',6-TrCB	19	8.652	2.0	1.23	62
13C-3,4,4'-TrCB	37	12.644	2.0	1.52	76
13C-2,2',6,6'-TeCB	54	10.280	2.0	1.12	56
13C-3,4,4',5-TeCB	81	15.331	2.0	1.39	69
13C-3,3',4,4'-TeCB	77	15.634	2.0	1.38	69
13C-2,2',4,6,6'-PeCB	104	12.219	2.0	1.44	72
13C-2,3',4,4',5'-PeCB	123	16.239	2.0	1.67	83
13C-2,3',4,4',5-PeCB	118	16.356	2.0	1.69	85
13C-2,3,4,4',5-PeCB	114	16.642	2.0	1.63	82
13C-2,3,3',4,4'-PeCB	105	17.096	2.0	1.58	79
13C-3,3',4,4',5-PeCB	126	18.138	2.0	1.66	83
13C-2,2',4,4',6,6'-HxCB	155	14.104	2.0	1.36	68
13C-2,3',4,4',5,5'-HxCB	167	18.659	2.0	1.52	76
13C-2,3,3',4,4',5-HxCB	156	19.281	2.0	1.55	78
13C-2,3,3',4,4',5'-HxCB	157	19.416	2.0	1.63	81
13C-3,3',4,4',5,5'-HxCB	169	20.441	2.0	1.55	78
13C-2,2',3,4',5,6,6'-HpCB	188	16.659	2.0	1.63	82
13C-2,3,3',4,4',5,5'-HpCB	189	21.443	2.0	1.51	75
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.080	2.0	1.84	92
13C-2,3,3',4,4',5,5',6-Occb	205	22.486	2.0	1.60	80
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	21.674	2.0	1.68	84
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.332	2.0	1.69	84
13C--DeCB	209	24.144	2.0	1.76	88
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.818	2.0	1.80	90
13C-2,3,3',5,5'-PeCB	111	15.230	2.0	1.62	81
13C-2,2',3,3',5,5',6-HpCB	178	17.936	2.0	1.48	74
Recovery Standards					
13C-2,5-DiCB	9	7.675	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.457	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.768	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.370	2.0	NA	NA

NA = Not Applicable

ND = Not Detected

RT = Retention Time

ng's = Nanograms

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

**PCB Congener Screening Analysis Results
LCS Analysis Results**

Lab Sample ID	LCS-63040	Matrix	Water
Filename	Y180625A_02	Dilution	NA
Injected By	BAL	Extracted	NA
Total Amount Extracted	1000 mL	Analyzed	06/25/2018 11:14
ICAL ID	Y180625A01		

Congener Group	Spiked ng	Found ng	Recovery %
Total MoCB	2.0	1.80	90
Total DiCB	2.0	1.64	82
Total TrCB	2.0	1.52	76
Total TeCB	3.0	3.15	105
Total PeCB	6.0	6.25	104
Total HxCB	5.0	4.77	95
Total HpCB	2.0	2.29	115
Total OcCB	2.0	2.20	110
Total NoCB	2.0	1.74	87
DeCB	2.0	2.42	121

ND = Not Detected

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Lab Sample ID LCS-63040
Filename Y180625A_02

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.368	2.0	0.970	48
13C-4-MoCB	3	6.458	2.0	1.06	53
13C-2,2'-DiCB	4	6.925	2.0	1.06	53
13C-4,4'-DiCB	15	9.572	2.0	1.20	60
13C-2,2',6-TrCB	19	8.652	2.0	1.12	56
13C-3,4,4'-TrCB	37	12.644	2.0	1.37	69
13C-2,2',6,6'-TeCB	54	10.280	2.0	1.21	60
13C-3,4,4',5-TeCB	81	15.331	2.0	1.30	65
13C-3,3',4,4'-TeCB	77	15.633	2.0	1.43	71
13C-2,2',4,6,6'-PeCB	104	12.219	2.0	1.19	60
13C-2,3',4,4',5'-PeCB	123	16.239	2.0	1.47	73
13C-2,3',4,4',5-PeCB	118	16.356	2.0	1.50	75
13C-2,3,4,4',5-PeCB	114	16.642	2.0	1.49	74
13C-2,3,3',4,4'-PeCB	105	17.096	2.0	1.45	72
13C-3,3',4,4',5-PeCB	126	18.138	2.0	1.50	75
13C-2,2',4,4',6,6'-HxCB	155	14.087	2.0	1.21	61
13C-2,3',4,4',5,5'-HxCB	167	18.642	2.0	1.45	73
13C-2,3,3',4,4',5-HxCB	156	19.281	2.0	1.48	74
13C-2,3,3',4,4',5'-HxCB	157	19.416	2.0	1.51	75
13C-3,3',4,4',5,5'-HxCB	169	20.441	2.0	1.48	74
13C-2,2',3,4',5,6,6'-HpCB	188	16.659	2.0	1.30	65
13C-2,3,3',4,4',5,5'-HpCB	189	21.431	2.0	1.42	71
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.079	2.0	1.51	75
13C-2,3,3',4,4',5,5',6-Occb	205	22.486	2.0	1.41	71
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	21.674	2.0	1.41	70
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.344	2.0	1.43	71
13C--DeCB	209	24.144	2.0	1.49	75
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.818	2.0	1.39	70
13C-2,3,3',5,5'-PeCB	111	15.230	2.0	1.56	78
13C-2,2',3,3',5,5',6-HpCB	178	17.936	2.0	1.42	71
Recovery Standards					
13C-2,5-DiCB	9	7.675	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.457	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.768	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.370	2.0	NA	NA

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

**PCB Congener Screening Analysis Results
Blank Analysis Results**

Lab Sample ID	BLANK-62988	Matrix	Water
Filename	Y180624A_10	Dilution	NA
Injected By	BAL	Extracted	NA
Total Amount Extracted	1020 mL	Analyzed	06/24/2018 16:40
ICAL ID	Y180624A03		

Congener Group	Concentration pg/L	Reporting Limit pg/L
Total MoCB	ND	244
Total DiCB	322	244
Total TrCB	ND	244
Total TeCB	ND	244
Total PeCB	ND	244
Total HxCB	ND	244
Total HpCB	ND	244
Total OcCB	ND	244
Total NoCB	ND	244
DeCB	ND	244
Total PCBs	322	

ND = Not Detected

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Lab Sample ID: BLANK-62988
Filename: Y180624A_10

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.382	2.0	1.05	53
13C-4-MoCB	3	6.472	2.0	1.12	56
13C-2,2'-DiCB	4	6.939	2.0	1.14	57
13C-4,4'-DiCB	15	9.572	2.0	1.24	62
13C-2,2',6-TrCB	19	8.666	2.0	1.50	75
13C-3,4,4'-TrCB	37	12.644	2.0	1.74	87
13C-2,2',6,6'-TeCB	54	10.280	2.0	1.23	61
13C-3,4,4',5-TeCB	81	15.314	2.0	1.41	71
13C-3,3',4,4'-TeCB	77	15.634	2.0	1.51	75
13C-2,2',4,6,6'-PeCB	104	12.219	2.0	1.50	75
13C-2,3',4,4',5'-PeCB	123	16.239	2.0	1.67	83
13C-2,3',4,4',5-PeCB	118	16.340	2.0	1.74	87
13C-2,3,4,4',5-PeCB	114	16.642	2.0	1.72	86
13C-2,3,3',4,4'-PeCB	105	17.096	2.0	1.70	85
13C-3,3',4,4',5-PeCB	126	18.121	2.0	1.71	85
13C-2,2',4,4',6,6'-HxCB	155	14.087	2.0	1.42	71
13C-2,3',4,4',5,5'-HxCB	167	18.642	2.0	1.63	82
13C-2,3,3',4,4',5-HxCB	156	19.281	2.0	1.71	86
13C-2,3,3',4,4',5'-HxCB	157	19.416	2.0	1.64	82
13C-3,3',4,4',5,5'-HxCB	169	20.424	2.0	1.52	76
13C-2,2',3,4',5,6,6'-HpCB	188	16.659	2.0	1.63	81
13C-2,3,3',4,4',5,5'-HpCB	189	21.431	2.0	1.58	79
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.063	2.0	1.82	91
13C-2,3,3',4,4',5,5',6-Occb	205	22.474	2.0	1.61	80
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	21.663	2.0	1.67	84
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.332	2.0	1.62	81
13C--DeCB	209	24.144	2.0	1.75	88
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.818	2.0	1.63	81
13C-2,3,3',5,5'-PeCB	111	15.213	2.0	1.83	91
13C-2,2',3,3',5,5',6-HpCB	178	17.920	2.0	1.55	77
Recovery Standards					
13C-2,5-DiCB	9	7.675	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.457	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.751	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.358	2.0	NA	NA

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

**PCB Congener Screening Analysis Results
Blank Analysis Results**

Lab Sample ID	BLANK-63039	Matrix	Water
Filename	Y180625A_04	Dilution	NA
Injected By	BAL	Extracted	NA
Total Amount Extracted	1000 mL	Analyzed	06/25/2018 12:12
ICAL ID	Y180625A01		

Congener Group	Concentration pg/L	Reporting Limit pg/L
Total MoCB	ND	250
Total DiCB	ND	250
Total TrCB	ND	250
Total TeCB	ND	250
Total PeCB	ND	250
Total HxCB	ND	250
Total HpCB	ND	250
Total OcCB	ND	250
Total NoCB	ND	250
DeCB	ND	250
Total PCBs	ND	

ND = Not Detected

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Lab Sample ID: BLANK-63039
Filename: Y180625A_04

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.340	2.0	0.907	45
13C-4-MoCB	3	6.458	2.0	0.978	49
13C-2,2'-DiCB	4	6.897	2.0	0.975	49
13C-4,4'-DiCB	15	9.558	2.0	1.09	54
13C-2,2',6-TrCB	19	8.652	2.0	1.02	51
13C-3,4,4'-TrCB	37	12.644	2.0	1.38	69
13C-2,2',6,6'-TeCB	54	10.266	2.0	1.05	53
13C-3,4,4',5-TeCB	81	15.314	2.0	1.38	69
13C-3,3',4,4'-TeCB	77	15.634	2.0	1.31	65
13C-2,2',4,6,6'-PeCB	104	12.219	2.0	1.22	61
13C-2,3',4,4',5'-PeCB	123	16.239	2.0	1.48	74
13C-2,3',4,4',5-PeCB	118	16.340	2.0	1.48	74
13C-2,3,4,4',5-PeCB	114	16.642	2.0	1.45	72
13C-2,3,3',4,4'-PeCB	105	17.096	2.0	1.39	69
13C-3,3',4,4',5-PeCB	126	18.138	2.0	1.49	75
13C-2,2',4,4',6,6'-HxCB	155	14.087	2.0	1.22	61
13C-2,3',4,4',5,5'-HxCB	167	18.642	2.0	1.45	73
13C-2,3,3',4,4',5-HxCB	156	19.281	2.0	1.59	79
13C-2,3,3',4,4',5'-HxCB	157	19.416	2.0	1.49	74
13C-3,3',4,4',5,5'-HxCB	169	20.424	2.0	1.53	76
13C-2,2',3,4',5,6,6'-HpCB	188	16.659	2.0	1.29	65
13C-2,3,3',4,4',5,5'-HpCB	189	21.431	2.0	1.38	69
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.063	2.0	1.44	72
13C-2,3,3',4,4',5,5',6-Occb	205	22.475	2.0	1.41	71
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	21.663	2.0	1.39	70
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.332	2.0	1.37	68
13C--DeCB	209	24.144	2.0	1.38	69
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.818	2.0	1.51	75
13C-2,3,3',5,5'-PeCB	111	15.213	2.0	1.55	78
13C-2,2',3,3',5,5',6-HpCB	178	17.920	2.0	1.48	74
Recovery Standards					
13C-2,5-DiCB	9	7.661	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.457	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.751	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.358	2.0	NA	NA

NA = Not Applicable

ND = Not Detected

RT = Retention Time

ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Section 2

Sample Data



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results

Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	GW018876-060418-SAG-003		
Lab Sample ID	265836001		
Filename	Y180624A_11		
Injected By	BAL	Matrix	Water
Total Amount Extracted	956 mL	Dilution	NA
% Moisture	NA	Collected	06/04/2018 14:10
Dry Weight Extracted	NA	Received	06/08/2018 09:30
ICAL ID	Y180624A03	Extracted	06/18/2018 14:55
Method Blank ID	BLANK-62988	Analyzed	06/24/2018 17:10

Congener Group	Concentration pg/L	Reporting Limit pg/L
Total MoCB	59000	261
Total DiCB	292000	261
Total TrCB	433000	261
Total TeCB	362000	261
Total PeCB	423000	261
Total HxCB	1030000	261
Total HpCB	367000	261
Total OcCB	15200	261
Total NoCB	ND	261
DeCB	ND	261
Total PCBs	2990000	

ND = Not Detected

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PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Client Sample ID GW018876-060418-SAG-003
Lab Sample ID 265836001
Filename Y180624A_11

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.382	2.0	1.12	56
13C-4-MoCB	3	6.486	2.0	1.13	56
13C-2,2'-DiCB	4	6.939	2.0	1.18	59
13C-4,4'-DiCB	15	9.572	2.0	1.33	66
13C-2,2',6-TrCB	19	8.666	2.0	1.33	67
13C-3,4,4'-TrCB	37	12.658	2.0	1.14	57
13C-2,2',6,6'-TeCB	54	10.280	2.0	1.02	51
13C-3,4,4',5-TeCB	81	15.330	2.0	1.02	51
13C-3,3',4,4'-TeCB	77	15.633	2.0	1.05	53
13C-2,2',4,6,6'-PeCB	104	12.233	2.0	1.20	60
13C-2,3',4,4',5'-PeCB	123	16.238	2.0	1.48	74
13C-2,3',4,4',5-PeCB	118	16.356	2.0	1.49	75
13C-2,3,4,4',5-PeCB	114	16.641	2.0	1.38	69
13C-2,3,3',4,4'-PeCB	105	17.095	2.0	1.43	72
13C-3,3',4,4',5-PeCB	126	18.137	2.0	1.44	72
13C-2,2',4,4',6,6'-HxCB	155	14.086	2.0	1.17	58
13C-2,3',4,4',5,5'-HxCB	167	18.642	2.0	1.36	68
13C-2,3,3',4,4',5-HxCB	156	19.281	2.0	1.38	69
13C-2,3,3',4,4',5'-HxCB	157	19.415	2.0	1.44	72
13C-3,3',4,4',5,5'-HxCB	169	20.440	2.0	1.30	65
13C-2,2',3,4',5,6,6'-HpCB	188	16.658	2.0	1.42	71
13C-2,3,3',4,4',5,5'-HpCB	189	21.430	2.0	1.48	74
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.062	2.0	1.58	79
13C-2,3,3',4,4',5,5',6-OcCB	205	22.473	2.0	1.34	67
13C-2,2',3,3',4,5,5',6-NoCB	208	21.674	2.0	1.51	75
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.331	2.0	1.41	71
13C--DeCB	209	24.154	2.0	1.51	75
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.818	2.0	1.47	73
13C-2,3,3',5,5'-PeCB	111	15.229	2.0	1.71	86
13C-2,2',3,3',5,5',6-HpCB	178	17.936	2.0	1.53	76
Recovery Standards					
13C-2,5-DiCB	9	7.689	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.456	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.768	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.369	2.0	NA	NA

NA = Not Applicable

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results

Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	GW018876-060418-SAG-004		
Lab Sample ID	265836002		
Filename	Y180624A_12		
Injected By	BAL	Matrix	Water
Total Amount Extracted	1020 mL	Dilution	NA
% Moisture	NA	Collected	06/04/2018 15:40
Dry Weight Extracted	NA	Received	06/08/2018 09:30
ICAL ID	Y180624A03	Extracted	06/18/2018 14:55
Method Blank ID	BLANK-62988	Analyzed	06/24/2018 17:39

Congener Group	Concentration pg/L	Reporting Limit pg/L
Total MoCB	779000	245
Total DiCB	2700000	245
Total TrCB	1360000	245
Total TeCB	466000	245
Total PeCB	188000	245
Total HxCB	111000	245
Total HpCB	3220	245
Total OcCB	ND	245
Total NoCB	ND	245
DeCB	ND	245
Total PCBs	5610000	

ND = Not Detected

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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**PCB Congener Screening Analysis Results
Labeled Analyte Recoveries**

Client Sample ID GW018876-060418-SAG-004
Lab Sample ID 265836002
Filename Y180624A_12

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.368	2.0	0.573	29
13C-4-MoCB	3	6.458	2.0	0.554	28
13C-2,2'-DiCB	4	6.925	2.0	0.613	31
13C-4,4'-DiCB	15	9.558	2.0	0.699	35
13C-2,2',6-TrCB	19	8.652	2.0	1.14	57
13C-3,4,4'-TrCB	37	12.630	2.0	0.799	40
13C-2,2',6,6'-TeCB	54	9.558	2.0	0.905	45
13C-3,4,4',5-TeCB	81	15.314	2.0	0.847	42
13C-3,3',4,4'-TeCB	77	15.634	2.0	0.952	48
13C-2,2',4,6,6'-PeCB	104	12.205	2.0	0.886	44
13C-2,3',4,4',5'-PeCB	123	16.222	2.0	1.23	62
13C-2,3',4,4',5-PeCB	118	16.340	2.0	1.21	60
13C-2,3,4,4',5-PeCB	114	16.625	2.0	1.17	59
13C-2,3,3',4,4'-PeCB	105	17.079	2.0	1.17	59
13C-3,3',4,4',5-PeCB	126	18.121	2.0	1.22	61
13C-2,2',4,4',6,6'-HxCB	155	14.087	2.0	0.896	45
13C-2,3',4,4',5,5'-HxCB	167	18.626	2.0	1.06	53
13C-2,3,3',4,4',5-HxCB	156	19.264	2.0	1.08	54
13C-2,3,3',4,4',5'-HxCB	157	19.399	2.0	1.16	58
13C-3,3',4,4',5,5'-HxCB	169	20.424	2.0	1.12	56
13C-2,2',3,4',5,6,6'-HpCB	188	16.659	2.0	1.05	53
13C-2,3,3',4,4',5,5'-HpCB	189	21.420	2.0	1.12	56
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.063	2.0	1.27	64
13C-2,3,3',4,4',5,5',6-OcCB	205	22.463	2.0	1.16	58
13C-2,2',3,3',4,5,5',6-NoCB	208	21.651	2.0	1.14	57
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.321	2.0	1.16	58
13C--DeCB	209	24.132	2.0	1.20	60
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.804	2.0	1.18	59
13C-2,3,3',5,5'-PeCB	111	14.440	2.0	1.56	78
13C-2,2',3,3',5,5',6-HpCB	178	17.920	2.0	1.23	62
Recovery Standards					
13C-2,5-DiCB	9	7.661	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.823	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.440	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.751	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.358	2.0	NA	NA

NA = Not Applicable

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results
Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	GW018876-060518-SAG-005		
Lab Sample ID	265836003		
Filename	Y180624A_13		
Injected By	BAL	Matrix	Water
Total Amount Extracted	1000 mL	Dilution	NA
% Moisture	NA	Collected	06/05/2018 09:25
Dry Weight Extracted	NA	Received	06/08/2018 09:30
ICAL ID	Y180624A03	Extracted	06/18/2018 14:55
Method Blank ID	BLANK-62988	Analyzed	06/24/2018 18:09

Congener Group	Concentration pg/L	Reporting Limit pg/L
Total MoCB	3670	249
Total DiCB	11600	249
Total TrCB	8610	249
Total TeCB	11600	249
Total PeCB	2910	249
Total HxCB	ND	249
Total HpCB	ND	249
Total OcCB	ND	249
Total NoCB	ND	249
DeCB	ND	249
Total PCBs	38500	

ND = Not Detected

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PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Client Sample ID GW018876-060518-SAG-005
Lab Sample ID 265836003
Filename Y180624A_13

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.382	2.0	1.05	53
13C-4-MoCB	3	6.486	2.0	1.01	51
13C-2,2'-DiCB	4	6.939	2.0	1.19	59
13C-4,4'-DiCB	15	9.572	2.0	1.25	63
13C-2,2',6-TrCB	19	8.666	2.0	1.76	88
13C-3,4,4'-TrCB	37	12.644	2.0	1.23	61
13C-2,2',6,6'-TeCB	54	10.280	2.0	0.999	50
13C-3,4,4',5-TeCB	81	15.330	2.0	1.14	57
13C-3,3',4,4'-TeCB	77	15.633	2.0	1.29	65
13C-2,2',4,6,6'-PeCB	104	12.233	2.0	0.806	40
13C-2,3',4,4',5'-PeCB	123	16.238	2.0	1.33	67
13C-2,3',4,4',5-PeCB	118	16.356	2.0	1.34	67
13C-2,3,4,4',5-PeCB	114	16.642	2.0	1.42	71
13C-2,3,3',4,4'-PeCB	105	17.095	2.0	1.39	69
13C-3,3',4,4',5-PeCB	126	18.138	2.0	1.42	71
13C-2,2',4,4',6,6'-HxCB	155	14.087	2.0	0.863	43
13C-2,3',4,4',5,5'-HxCB	167	18.642	2.0	1.47	74
13C-2,3,3',4,4',5-HxCB	156	19.281	2.0	1.59	79
13C-2,3,3',4,4',5'-HxCB	157	19.415	2.0	1.58	79
13C-3,3',4,4',5,5'-HxCB	169	20.440	2.0	1.45	73
13C-2,2',3,4',5,6,6'-HpCB	188	16.658	2.0	1.25	62
13C-2,3,3',4,4',5,5'-HpCB	189	21.431	2.0	1.48	74
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.062	2.0	1.45	72
13C-2,3,3',4,4',5,5',6-OcCB	205	22.485	2.0	1.54	77
13C-2,2',3,3',4,5,5',6-NoCB	208	21.662	2.0	1.47	74
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.343	2.0	1.48	74
13C--DeCB	209	24.143	2.0	1.51	76
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.832	2.0	1.63	82
13C-2,3,3',5,5'-PeCB	111	15.213	2.0	1.69	85
13C-2,2',3,3',5,5',6-HpCB	178	17.919	2.0	1.49	75
Recovery Standards					
13C-2,5-DiCB	9	7.675	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.456	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.768	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.369	2.0	NA	NA

NA = Not Applicable

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results

Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	GW018876-060618-SAG-010		
Lab Sample ID	265836004		
Filename	Y180625A_05		
Injected By	BAL	Matrix	Water
Total Amount Extracted	1000 mL	Dilution	NA
% Moisture	NA	Collected	06/06/2018 11:40
Dry Weight Extracted	NA	Received	06/08/2018 09:30
ICAL ID	Y180625A01	Extracted	06/20/2018 12:20
Method Blank ID	BLANK-63039	Analyzed	06/25/2018 12:41

Congener Group	Concentration pg/L	Reporting Limit pg/L
Total MoCB	301000	250
Total DiCB	2900000	250
Total TrCB	4420000	250
Total TeCB	5000000	250
Total PeCB	481000	250
Total HxCB	11400	250
Total HpCB	750	250
Total OcCB	ND	250
Total NoCB	ND	250
DeCB	ND	250
Total PCBs	13100000	

ND = Not Detected

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PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Client Sample ID GW018876-060618-SAG-010
Lab Sample ID 265836004
Filename Y180625A_05

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.354	2.0	1.04	52
13C-4-MoCB	3	6.458	2.0	1.12	56
13C-2,2'-DiCB	4	6.925	2.0	1.11	56
13C-4,4'-DiCB	15	9.572	2.0	1.18	59
13C-2,2',6-TrCB	19	8.652	2.0	1.09	55
13C-3,4,4'-TrCB	37	12.644	2.0	1.47	73
13C-2,2',6,6'-TeCB	54	10.280	2.0	0.995	50
13C-3,4,4',5-TeCB	81	15.330	2.0	1.37	68
13C-3,3',4,4'-TeCB	77	15.633	2.0	1.41	71
13C-2,2',4,6,6'-PeCB	104	12.219	2.0	1.07	53
13C-2,3',4,4',5'-PeCB	123	16.238	2.0	1.47	74
13C-2,3',4,4',5-PeCB	118	16.356	2.0	1.54	77
13C-2,3,4,4',5-PeCB	114	16.641	2.0	1.46	73
13C-2,3,3',4,4'-PeCB	105	17.095	2.0	1.50	75
13C-3,3',4,4',5-PeCB	126	18.137	2.0	1.58	79
13C-2,2',4,4',6,6'-HxCB	155	14.086	2.0	1.10	55
13C-2,3',4,4',5,5'-HxCB	167	18.642	2.0	1.39	69
13C-2,3,3',4,4',5-HxCB	156	19.297	2.0	1.48	74
13C-2,3,3',4,4',5'-HxCB	157	19.415	2.0	1.34	67
13C-3,3',4,4',5,5'-HxCB	169	20.440	2.0	1.39	69
13C-2,2',3,4',5,6,6'-HpCB	188	16.658	2.0	1.34	67
13C-2,3,3',4,4',5,5'-HpCB	189	21.430	2.0	1.43	71
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.062	2.0	1.41	71
13C-2,3,3',4,4',5,5',6-Occb	205	22.485	2.0	1.34	67
13C-2,2',3,3',4,5,5',6-NoCB	208	21.662	2.0	1.40	70
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.343	2.0	1.45	73
13C--DeCB	209	24.154	2.0	1.41	70
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.818	2.0	1.40	70
13C-2,3,3',5,5'-PeCB	111	15.213	2.0	1.67	83
13C-2,2',3,3',5,5',6-HpCB	178	17.936	2.0	1.41	71
Recovery Standards					
13C-2,5-DiCB	9	7.675	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.456	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.768	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.369	2.0	NA	NA

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Tel: 612-607-1700
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PCB Congener Screening Analysis Results

Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	GW018876-060418-SDL-102		
Lab Sample ID	265836005		
Filename	Y180625A_06		
Injected By	BAL	Matrix	Water
Total Amount Extracted	1000 mL	Dilution	NA
% Moisture	NA	Collected	06/04/2018 14:12
Dry Weight Extracted	NA	Received	06/08/2018 09:30
ICAL ID	Y180625A01	Extracted	06/20/2018 12:20
Method Blank ID	BLANK-63039	Analyzed	06/25/2018 13:11

Congener Group	Concentration pg/L	Reporting Limit pg/L
Total MoCB	486000	249
Total DiCB	528000	249
Total TrCB	405000	249
Total TeCB	227000	249
Total PeCB	127000	249
Total HxCB	39900	249
Total HpCB	12900	249
Total OcCB	2350	249
Total NoCB	ND	249
DeCB	ND	249
Total PCBs	1830000	

ND = Not Detected

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PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Client Sample ID GW018876-060418-SDL-102
Lab Sample ID 265836005
Filename Y180625A_06

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.354	2.0	0.923	46
13C-4-MoCB	3	6.458	2.0	0.935	47
13C-2,2'-DiCB	4	6.925	2.0	0.917	46
13C-4,4'-DiCB	15	9.586	2.0	1.02	51
13C-2,2',6-TrCB	19	8.666	2.0	0.917	46
13C-3,4,4'-TrCB	37	12.658	2.0	1.09	54
13C-2,2',6,6'-TeCB	54	10.294	2.0	0.751	38
13C-3,4,4',5-TeCB	81	15.331	2.0	1.06	53
13C-3,3',4,4'-TeCB	77	15.650	2.0	1.08	54
13C-2,2',4,6,6'-PeCB	104	12.233	2.0	0.652	33
13C-2,3',4,4',5'-PeCB	123	16.239	2.0	1.09	54
13C-2,3',4,4',5-PeCB	118	16.356	2.0	1.12	56
13C-2,3,4,4',5-PeCB	114	16.659	2.0	1.05	52
13C-2,3,3',4,4'-PeCB	105	17.096	2.0	1.10	55
13C-3,3',4,4',5-PeCB	126	18.138	2.0	1.23	62
13C-2,2',4,4',6,6'-HxCB	155	14.104	2.0	0.710	35
13C-2,3',4,4',5,5'-HxCB	167	18.659	2.0	1.10	55
13C-2,3,3',4,4',5-HxCB	156	19.298	2.0	1.16	58
13C-2,3,3',4,4',5'-HxCB	157	19.433	2.0	1.08	54
13C-3,3',4,4',5,5'-HxCB	169	20.441	2.0	1.22	61
13C-2,2',3,4',5,6,6'-HpCB	188	16.676	2.0	0.894	45
13C-2,3,3',4,4',5,5'-HpCB	189	21.443	2.0	1.05	53
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.080	2.0	1.05	52
13C-2,3,3',4,4',5,5',6-OcCB	205	22.486	2.0	1.02	51
13C-2,2',3,3',4,5,5',6-NoCB	208	21.674	2.0	1.05	53
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.344	2.0	1.05	53
13C--DeCB	209	24.155	2.0	1.08	54
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.832	2.0	1.46	73
13C-2,3,3',5,5'-PeCB	111	15.230	2.0	1.55	77
13C-2,2',3,3',5,5',6-HpCB	178	17.936	2.0	1.43	72
Recovery Standards					
13C-2,5-DiCB	9	7.675	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.851	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.474	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.768	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.370	2.0	NA	NA

NA = Not Applicable

ND = Not Detected

RT = Retention Time

ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results

Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	GW018876-060618-SDL-107		
Lab Sample ID	265836006		
Filename	Y180625A_07		
Injected By	BAL	Matrix	Water
Total Amount Extracted	922 mL	Dilution	NA
% Moisture	NA	Collected	06/06/2018 11:10
Dry Weight Extracted	NA	Received	06/08/2018 09:30
ICAL ID	Y180625A01	Extracted	06/20/2018 12:20
Method Blank ID	BLANK-63039	Analyzed	06/25/2018 13:40

Congener Group	Concentration pg/L	Reporting Limit pg/L
Total MoCB	618000	271
Total DiCB	5770000	271
Total TrCB	6810000	271
Total TeCB	6640000	271
Total PeCB	3810000	271
Total HxCB	947000	271
Total HpCB	147000	271
Total OcCB	7730	271
Total NoCB	ND	271
DeCB	ND	271
Total PCBs	24700000	

ND = Not Detected

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Client Sample ID GW018876-060618-SDL-107
Lab Sample ID 265836006
Filename Y180625A_07

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.368	2.0	1.08	54
13C-4-MoCB	3	6.458	2.0	1.10	55
13C-2,2'-DiCB	4	6.925	2.0	1.03	52
13C-4,4'-DiCB	15	9.558	2.0	1.10	55
13C-2,2',6-TrCB	19	8.652	2.0	1.07	53
13C-3,4,4'-TrCB	37	12.643	2.0	1.39	70
13C-2,2',6,6'-TeCB	54	10.280	2.0	0.795	40
13C-3,4,4',5-TeCB	81	15.313	2.0	1.31	66
13C-3,3',4,4'-TeCB	77	15.633	2.0	1.29	65
13C-2,2',4,6,6'-PeCB	104	12.219	2.0	0.827	41
13C-2,3',4,4',5'-PeCB	123	16.238	2.0	1.24	62
13C-2,3',4,4',5-PeCB	118	16.339	2.0	1.22	61
13C-2,3,4,4',5-PeCB	114	16.641	2.0	1.27	64
13C-2,3,3',4,4'-PeCB	105	17.095	2.0	1.31	66
13C-3,3',4,4',5-PeCB	126	18.137	2.0	1.34	67
13C-2,2',4,4',6,6'-HxCB	155	14.086	2.0	0.864	43
13C-2,3',4,4',5,5'-HxCB	167	18.642	2.0	1.15	57
13C-2,3,3',4,4',5-HxCB	156	19.280	2.0	1.21	61
13C-2,3,3',4,4',5'-HxCB	157	19.415	2.0	1.13	57
13C-3,3',4,4',5,5'-HxCB	169	20.440	2.0	1.26	63
13C-2,2',3,4',5,6,6'-HpCB	188	16.658	2.0	1.03	52
13C-2,3,3',4,4',5,5'-HpCB	189	21.430	2.0	1.15	58
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.062	2.0	1.18	59
13C-2,3,3',4,4',5,5',6-OcCB	205	22.473	2.0	1.18	59
13C-2,2',3,3',4,5,5',6-NoCB	208	21.662	2.0	1.18	59
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.343	2.0	1.16	58
13C--DeCB	209	24.143	2.0	1.20	60
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.817	2.0	1.56	78
13C-2,3,3',5,5'-PeCB	111	15.212	2.0	1.56	78
13C-2,2',3,3',5,5',6-HpCB	178	17.919	2.0	1.30	65
Recovery Standards					
13C-2,5-DiCB	9	7.661	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.456	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.751	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.369	2.0	NA	NA

NA = Not Applicable

ND = Not Detected

RT = Retention Time

ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Section 3

Standards Data



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Polychlorobiphenyl Screen Single Point Calibration

Calibration ID	Y180624A_03	Data File	Y180624A_03
Calibration Date	06/24/2018 12:53	Injected By	BAL
Initial Calibration	Y180624A_03	Column Phase	ZB-5MS
Instrument	10MSHR12 (Y)	Column ID No.	

Parameter	RT Lo	RT Hi	RF
Total MoCB	5.297	6.415	1.3307
Total DiCB	6.883	9.543	2.2416
Total TrCB	8.623	12.644	2.9103
Total TeCB	10.266	15.633	2.2456
Total PeCB	12.219	18.121	1.6696
Total HxCB	14.086	20.440	1.9156
Total HpCB	16.658	21.430	1.7904
Total OcCB	19.062	22.485	2.0700
Total NoCB	21.662	23.343	2.6589
DeCB	24.154	24.154	0.9877

RT Lo = Lower Retention Time Window
RT Hi = Upper Retention Time Windows
RF = Response Factor

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Polychlorobiphenyl Screen Single Point Calibration

Data File Y180624A_03
Calibration Date 06/24/2018 12:53
Instrument 10MSHR12 (Y)

Injected By BAL
Column Phase ZB-5MS
Column ID No.

Parameter	IUPAC	RT	RF
Labeled Analytes			
13C-2-MoCB	1	5.297	1.0803
13C-4-MoCB	3	6.415	1.2013
13C-2,2'-DiCB	4	6.883	0.6148
13C-4,4'-DiCB	15	9.543	1.0997
13C-2,2',6-TrCB	19	8.623	0.4311
13C-3,4,4'-TrCB	37	12.644	2.0604
13C-2,2',6,6'-TeCB	54	10.266	1.1290
13C-3,4,4',5-TeCB	81	15.314	1.7434
13C-3,3',4,4'-TeCB	77	15.633	1.7928
13C-2,2',4,6,6'-PeCB	104	12.219	0.6951
13C-2,3',4,4',5-PeCB	123	16.238	1.1680
13C-2,3',4,4',5-PeCB	118	16.356	1.2352
13C-2,3,4,4',5-PeCB	114	16.642	1.1950
13C-2,3,3',4,4'-PeCB	105	17.095	1.2060
13C-3,3',4,4',5-PeCB	126	18.121	1.1317
13C-2,2',4,4',6,6'-HxCB	155	14.086	1.4208
13C-2,3',4,4',5,5'-HxCB	167	18.642	1.2520
13C-2,3,3',4,4',5-HxCB	156	19.281	1.1681
13C-2,3,3',4,4',5'-HxCB	157	19.415	1.1995
13C-3,3',4,4',5,5'-HxCB	169	20.440	1.1504
13C-2,2',3,4',5,6,6'-HpCB	188	16.658	1.5004
13C-2,3,3',4,4',5,5'-HpCB	189	21.430	1.6393
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.062	1.1289
13C-2,3,3',4,4',5,5',6-OcCB	205	22.485	1.2780
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	21.662	1.3196
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.343	0.9297
13C--DeCB	209	24.154	0.9877
Cleanup Standards			
13C-2,4,4'-TrCB	28	10.803	2.4020
13C-2,3,3',5,5'-PeCB	111	15.213	1.2811
13C-2,2',3,3',5,5',6-HpCB	178	17.936	0.8000
Recovery Standards			
13C-2,5-DiCB	9	7.633	2.6903
13C-2,2',5,5'-TeCB	52	11.837	0.9053
13C-2,2',4,5,5'-PeCB	101	14.456	1.6213
13C-2,2',3,4,4',5'-HxCB	138	17.768	1.2500
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.369	0.8731

RT = Retention Time

RF = Response Factor

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Pace Analytical Services, Inc.
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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Polychlorobiphenyl Screen Single Point Calibration

Calibration ID	Y180625A_01	Data File	Y180625A_01
Calibration Date	06/25/2018 10:18	Injected By	BAL
Initial Calibration	Y180625A_01	Column Phase	ZB-5MS
Instrument	10MSHR12 (Y)	Column ID No.	

Parameter	RT Lo	RT Hi	RF
Total MoCB	5.283	6.401	1.3004
Total DiCB	6.869	9.544	2.2521
Total TrCB	8.624	12.630	2.9994
Total TeCB	10.251	15.633	2.1853
Total PeCB	12.205	18.121	1.6913
Total HxCB	14.087	20.424	1.9587
Total HpCB	16.659	21.431	1.7536
Total OcCB	19.062	22.474	1.9869
Total NoCB	21.662	23.332	2.6714
DeCB	24.143	24.143	1.0222

RT Lo = Lower Retention Time Window
RT Hi = Upper Retention Time Windows
RF = Response Factor

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Polychlorobiphenyl Screen Single Point Calibration

Data File Y180625A_01
Calibration Date 06/25/2018 10:18
Instrument 10MSHR12 (Y)

Injected By BAL
Column Phase ZB-5MS
Column ID No.

Parameter	IUPAC	RT	RF
Labeled Analytes			
13C-2-MoCB	1	5.283	1.1550
13C-4-MoCB	3	6.401	1.2404
13C-2,2'-DiCB	4	6.869	0.6039
13C-4,4'-DiCB	15	9.544	1.0800
13C-2,2',6-TrCB	19	8.624	0.4102
13C-3,4,4'-TrCB	37	12.630	1.9241
13C-2,2',6,6'-TeCB	54	10.251	1.1551
13C-3,4,4',5-TeCB	81	15.314	1.7089
13C-3,3',4,4'-TeCB	77	15.633	1.7785
13C-2,2',4,6,6'-PeCB	104	12.205	0.6742
13C-2,3',4,4',5-PeCB	123	16.221	1.1088
13C-2,3',4,4',5-PeCB	118	16.339	1.1781
13C-2,3,4,4',5-PeCB	114	16.642	1.1467
13C-2,3,3',4,4'-PeCB	105	17.096	1.1324
13C-3,3',4,4',5-PeCB	126	18.121	1.0532
13C-2,2',4,4',6,6'-HxCB	155	14.087	1.4570
13C-2,3',4,4',5,5'-HxCB	167	18.642	1.2125
13C-2,3,3',4,4',5-HxCB	156	19.281	1.0793
13C-2,3,3',4,4',5'-HxCB	157	19.415	1.2085
13C-3,3',4,4',5,5'-HxCB	169	20.424	1.0385
13C-2,2',3,4',5,6,6'-HpCB	188	16.659	1.4724
13C-2,3,3',4,4',5,5'-HpCB	189	21.431	1.5948
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.062	1.0966
13C-2,3,3',4,4',5,5',6-OcCB	205	22.474	1.3333
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	21.662	1.3559
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.332	0.9292
13C--DeCB	209	24.143	1.0222
Cleanup Standards			
13C-2,4,4'-TrCB	28	10.804	2.3232
13C-2,3,3',5,5'-PeCB	111	15.213	1.2425
13C-2,2',3,3',5,5',6-HpCB	178	17.919	0.7715
Recovery Standards			
13C-2,5-DiCB	9	7.633	3.0796
13C-2,2',5,5'-TeCB	52	11.823	0.9706
13C-2,2',4,5,5'-PeCB	101	14.439	1.7853
13C-2,2',3,4,4',5'-HxCB	138	17.751	1.2963
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.358	0.9146

RT = Retention Time

RF = Response Factor

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Section 4

Preparation Logs

1668A - 209

Water

Sep Funnel

EB-22260

QC Matrix Lot #: DI Water

Extract Solvents:

Extraction On (Date/Time):

06/18/18 14:55

Time of Spiking: 06/18/18 11:55

Toluene Lot #

Balance: 10BAL2

Hexane Lot #

SPE Filter Lot:

MeCl Lot # 182138

Extraction Off (Date/Time):

06/18/18 17:50

Standards	Name/ID	Amount	Initial	Witness	Expiration Date
Internal Std.	209-I-11754-172	100	NH	KMP	06/04/19
Native	209-N-11754-141	100	NH	KMP	03/06/19
CI37 Std.	209-CL-11754-171	100	NH		06/01/19
Recovery	209-R-11754-167	10	PED		05/16/19
Tridecane		10	PED		
Others	NONANE	180	PED		

#	Sample ID	Internal Standards	Native Standards	Full Bottle Weight	Empty Bottle Weight	pH/ResCl Check	pH Adjusted	Glassware Set	Location	Comments
1	BLANK-62988	x		1531.1	508.5	x				
2	LCS-62989	x	x	1549.4	509.3	x				
3	LCSD-62998	x	x	1525.7	509.6	x				
4	265836001	x		1420.4	463.9	x	x		11/77	1668-Trackback
5	265836002	x		1479.9	461.3	x			11/77	1668-Trackback
6	265836003	x		1470.3	466.2	x			11/77	1668-Trackback
7	265840001	x		1452.0	466.3	x			11/77	1668-Trackback
8	265840002	x		1488.5	465.6	x			11/77	1668-Trackback
9	7054002001	x		1288.2	432.8	x			Rcvng	1668A 209

Relinquished By: P Demas

Received By:

Date:

F-MN-H-045-Rev.02, 28Jan2016

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Silica	Alumina	Carbon	Florisil
Initials NMP	Initials _____	Initials _____	Initials _____
Date 6/19/2018	Date _____	Date _____	Date _____
Neutral Batch 182	Alumina Lot # _____	Hexane Lot # _____	Florisil Lot # _____
Basic Batch 182	Hexane Lot # _____	Dispenser _____	Hexane Lot # _____
Acid Batch 182	Dispenser _____	50% Batch _____	Dispenser _____
Hexane Lot # 180405	60% Batch _____	Dispenser _____	6% Batch _____
Dispenser Q266	Dispenser _____	75% Batch _____	Dispenser _____
Acid Base			
Sulphuric Acid Lot # _____		Toluene Lot # _____	Sulfate Batch _____
Base Batch _____		Dispenser _____	Dispenser _____
Methanol Lot # _____			
Dispenser _____			
Sample #2: sample had to be respiked; did not wait one hour before starting tumbling...			

1668A - 209

Water

Sep Funnel

EB-22276

QC Matrix Lot #: DI Water

Extract Solvents:

Extraction On (Date/Time):

06/20/18 12:20

Time of Spiking: 06/20/18 10:40

Toluene Lot #

Balance: 10BAL2

Hexane Lot #

SPE Filter Lot:

MeCl Lot # 180845

Extraction Off (Date/Time):

06/20/18 14:15

Standards	Name/ID	Amount	Initial	Witness	Expiration Date
Internal Std.	209-I-11754-172	100	NH	KMP	06/04/19
Native	209-N-11754-141	100	NH	KMP	03/06/19
CI37 Std.	209-CL-11754-171	100	NH		06/01/19
Recovery	209-R-11754-167	10	MCH		05/16/19
Tridecane	TRIDEC	101	LM		
Others	NONANE	180	MCH		

#	Sample ID	Internal Standards	Native Standards	Full Bottle Weight	Empty Bottle Weight	pH/ResCl Check	pH Adjusted	Glassware Set	Location	Comments
1	BLANK-63039	x		1546.3	510.3	x				
2	LCS-63040	x	x	1513.0	506.3	x				
3	265836005-MS2	x	x	1452.8	458.0	x			10/10	1668-Trackback
4	265836005-MSD	x	x	1471.8	467.0	x			10/10	1668-Trackback ** Epic MSD **
5	265836004	x		1460.1	458.4	x			10/10	1668-Trackback
6	265836005	x		1464.5	460.9	x			10/10	1668-Trackback
7	265836006	x		1386.9	465.4	x			10/10	1668-Trackback

Relinquished By:

Received By: Wetlab

Date: 6/25/2018

F-MN-H-045-Rev.02, 28Jan2016

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Report No.....10434905_TB_DFR

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Silica		Alumina		Carbon		Florisil	
Initials	NMP	Initials		Initials		Initials	
Date	6/21/2018	Date		Date		Date	
Neutral Batch	182	Alumina Lot #		Hexane Lot #		Florisil Lot #	
Basic Batch	182	Hexane Lot #		Dispenser		Hexane Lot #	
Acid Batch	182	Dispenser		50% Batch		Dispenser	
Hexane Lot #	180405	60% Batch		Dispenser		6% Batch	
Dispenser	Q266	Dispenser		75% Batch		Dispenser	
Acid Base							
Sulphuric Acid Lot #				Toluene Lot #		Sulfate Batch	
Base Batch				Dispenser			
				Methanol Lot #			
				Dispenser			

June 15, 2018

Terefe Mazengia
GHD
3075 Breckinridge Blvd
Suite 470
Duluth, GA 30096

RE: Project: Southland Circle Site - 018876
Pace Project No.: 265838

Dear Terefe Mazengia:

Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Paul McMahon, GHD



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Southland Circle Site - 018876
Pace Project No.: 265838

Atlanta Certification IDs

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Texas Certification #: T104704397-08-TX
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Southland Circle Site - 018876
Pace Project No.: 265838

Lab ID	Sample ID	Matrix	Date Collected	Date Received
265838001	SW-018876-060718-SAG-201	Water	06/07/18 08:30	06/07/18 12:15
265838002	SW-018876-060718-SAG-202	Water	06/07/18 10:35	06/07/18 12:15
265838003	SED-018876-060718-SAG-301	Solid	06/07/18 08:40	06/07/18 12:15
265838004	SED-018876-060718-SAG-302	Solid	06/07/18 10:45	06/07/18 12:15
265838005	SO-018876-060718-SAG-401	Solid	06/07/18 09:00	06/07/18 12:15
265838006	SO-018876-060718-SAG-402	Solid	06/07/18 09:15	06/07/18 12:15
265838007	SO-018876-060718-SAG-403	Solid	06/07/18 09:20	06/07/18 12:15
265838008	SO-018876-060718-SAG-404	Solid	06/07/18 09:40	06/07/18 12:15
265838009	SO-018876-060718-SAG-405	Solid	06/07/18 09:45	06/07/18 12:15
265838010	SO-018876-060718-SAG-406	Solid	06/07/18 10:00	06/07/18 12:15
265838011	Trip Blank	Water	06/07/18 00:00	06/07/18 12:15

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SAMPLE ANALYTE COUNT

Project: Southland Circle Site - 018876
Pace Project No.: 265838

Lab ID	Sample ID	Method	Analysts	Analytes Reported
265838001	SW-018876-060718-SAG-201	EPA 8082A	SFI	8
		EPA 8260B	LIH	54
265838002	SW-018876-060718-SAG-202	EPA 8082A	SFI	8
		EPA 8260B	LIH	54
265838003	SED-018876-060718-SAG-301	EPA 8082A	SFI	8
		EPA 8260B	JHG	54
265838004	SED-018876-060718-SAG-302	Pace SOP #204	JPT	1
		EPA 8082A	SFI	8
265838005	SO-018876-060718-SAG-401	EPA 8260B	JHG	54
		Pace SOP #204	JPT	1
265838006	SO-018876-060718-SAG-402	EPA 8082A	SFI	8
		Pace SOP #204	JPT	1
265838007	SO-018876-060718-SAG-403	EPA 8082A	SFI	8
		Pace SOP #204	JPT	1
265838008	SO-018876-060718-SAG-404	EPA 8082A	SFI	8
		Pace SOP #204	JPT	1
265838009	SO-018876-060718-SAG-405	EPA 8082A	SFI	8
		Pace SOP #204	JPT	1
265838010	SO-018876-060718-SAG-406	EPA 8082A	SFI	8
		Pace SOP #204	JPT	1
265838011	Trip Blank	EPA 8260B	LIH	54

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265838

Sample: SW-018876-060718-SAG-201 Lab ID: 265838001 Collected: 06/07/18 08:30 Received: 06/07/18 12:15 Matrix: Water

Parameters	Results	Units	Report						
			Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.34	1	06/14/18 08:00	06/14/18 15:05	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 15:05	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 15:05	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 15:05	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 15:05	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 15:05	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.24	1	06/14/18 08:00	06/14/18 15:05	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	71	%.	17-144		1	06/14/18 08:00	06/14/18 15:05	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 18:12	67-64-1	
Benzene	ND	ug/L	1.0	0.20	1		06/13/18 18:12	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 18:12	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 18:12	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 18:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 18:12	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 18:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 18:12	56-23-5	M1
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/13/18 18:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 18:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 18:12	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 18:12	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 18:12	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 18:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 18:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 18:12	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/13/18 18:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/13/18 18:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.58	1		06/13/18 18:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 18:12	75-71-8	M1
1,1-Dichloroethane	0.51J	ug/L	1.0	0.41	1		06/13/18 18:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 18:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 18:12	75-35-4	
cis-1,2-Dichloroethene	2.2	ug/L	1.0	0.66	1		06/13/18 18:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 18:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 18:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 18:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 18:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 18:12	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 18:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 18:12	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 18:12	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 18:12	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 18:12	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265838

Sample: SW-018876-060718-SAG-201 Lab ID: 265838001 Collected: 06/07/18 08:30 Received: 06/07/18 12:15 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1				06/13/18 18:12	108-10-1
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1				06/13/18 18:12	1634-04-4
Styrene	ND	ug/L	1.0	0.50	1				06/13/18 18:12	100-42-5
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1				06/13/18 18:12	79-34-5
Tetrachloroethene	6.7	ug/L	1.0	0.78	1				06/13/18 18:12	127-18-4
Toluene	ND	ug/L	1.0	0.31	1				06/13/18 18:12	108-88-3
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.47	1				06/13/18 18:12	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1				06/13/18 18:12	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1				06/13/18 18:12	79-00-5
Trichloroethene	0.81J	ug/L	1.0	0.34	1				06/13/18 18:12	79-01-6
Trichlorofluoromethane	2.3	ug/L	1.0	0.51	1				06/13/18 18:12	75-69-4
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1				06/13/18 18:12	76-13-1
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1				06/13/18 18:12	95-63-6
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1				06/13/18 18:12	108-67-8
Vinyl chloride	ND	ug/L	1.0	0.60	1				06/13/18 18:12	75-01-4
Xylene (Total)	ND	ug/L	2.0	1.5	1				06/13/18 18:12	1330-20-7
Surrogates										
1,2-Dichloroethane-d4 (S)	101	%.	81-119		1				06/13/18 18:12	17060-07-0
Dibromofluoromethane (S)	97	%.	82-114		1				06/13/18 18:12	1868-53-7
4-Bromofluorobenzene (S)	105	%.	82-120		1				06/13/18 18:12	460-00-4
Toluene-d8 (S)	101	%.	82-109		1				06/13/18 18:12	2037-26-5

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265838

Sample: SW-018876-060718-SAG-202 Lab ID: 265838002 Collected: 06/07/18 10:35 Received: 06/07/18 12:15 Matrix: Water

Parameters	Results	Units	Report						
			Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 PCB Water GCS	Analytical Method: EPA 8082A Preparation Method: EPA 3510C								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.50	0.34	1	06/14/18 08:00	06/14/18 15:26	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 15:26	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 15:26	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 15:26	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 15:26	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.50	0.50	1	06/14/18 08:00	06/14/18 15:26	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.50	0.24	1	06/14/18 08:00	06/14/18 15:26	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	66	%.	17-144		1	06/14/18 08:00	06/14/18 15:26	2051-24-3	
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 13:32	67-64-1	
Benzene	ND	ug/L	1.0	0.20	1		06/13/18 13:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 13:32	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 13:32	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 13:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 13:32	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 13:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 13:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/13/18 13:32	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 13:32	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 13:32	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 13:32	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 13:32	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 13:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 13:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 13:32	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/13/18 13:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/13/18 13:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.58	1		06/13/18 13:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 13:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/13/18 13:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 13:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 13:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.66	1		06/13/18 13:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 13:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 13:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 13:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 13:32	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 13:32	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 13:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 13:32	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 13:32	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 13:32	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 13:32	75-09-2	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265838

Sample: SW-018876-060718-SAG-202 Lab ID: 265838002 Collected: 06/07/18 10:35 Received: 06/07/18 12:15 Matrix: Water

Parameters	Results	Units	Report					CAS No.	Qual	
			Limit	MDL	DF	Prepared	Analyzed			
8260B MSV Water, Extend									Analytical Method: EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1			06/13/18 13:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1			06/13/18 13:32	1634-04-4	
Styrene	ND	ug/L	1.0	0.50	1			06/13/18 13:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1			06/13/18 13:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.78	1			06/13/18 13:32	127-18-4	
Toluene	ND	ug/L	1.0	0.31	1			06/13/18 13:32	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.47	1			06/13/18 13:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1			06/13/18 13:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1			06/13/18 13:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.34	1			06/13/18 13:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1			06/13/18 13:32	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1			06/13/18 13:32	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1			06/13/18 13:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1			06/13/18 13:32	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1			06/13/18 13:32	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1			06/13/18 13:32	1330-20-7	
Surrogates										
1,2-Dichloroethane-d4 (S)	96	%.	81-119		1			06/13/18 13:32	17060-07-0	
Dibromofluoromethane (S)	97	%.	82-114		1			06/13/18 13:32	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	82-120		1			06/13/18 13:32	460-00-4	
Toluene-d8 (S)	101	%.	82-109		1			06/13/18 13:32	2037-26-5	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265838

Sample: SED-018876-060718-SAG-301 Lab ID: 265838003 Collected: 06/07/18 08:40 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report				Analyzed	CAS No.	Qual		
			Limit	MDL	DF	Prepared					
8082 GCS PCB											
			Analytical Method: EPA 8082A Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	216	35.3	5	06/14/18 08:00	06/14/18 13:28	12674-11-2			
PCB-1221 (Aroclor 1221)	ND	ug/kg	438	216	5	06/14/18 08:00	06/14/18 13:28	11104-28-2			
PCB-1232 (Aroclor 1232)	ND	ug/kg	216	216	5	06/14/18 08:00	06/14/18 13:28	11141-16-5			
PCB-1242 (Aroclor 1242)	ND	ug/kg	216	216	5	06/14/18 08:00	06/14/18 13:28	53469-21-9			
PCB-1248 (Aroclor 1248)	ND	ug/kg	216	216	5	06/14/18 08:00	06/14/18 13:28	12672-29-6			
PCB-1254 (Aroclor 1254)	ND	ug/kg	216	216	5	06/14/18 08:00	06/14/18 13:28	11097-69-1			
PCB-1260 (Aroclor 1260)	ND	ug/kg	216	26.8	5	06/14/18 08:00	06/14/18 13:28	11096-82-5			
Surrogates											
Decachlorobiphenyl (S)	24	%.	12-139		5	06/14/18 08:00	06/14/18 13:28	2051-24-3			
8260 MSV 5035											
			Analytical Method: EPA 8260B Preparation Method: EPA 5035								
Acetone	99.4	ug/kg	95.9	2.4	1	06/13/18 10:21	06/13/18 14:48	67-64-1	M1		
Benzene	ND	ug/kg	9.6	0.16	1	06/13/18 10:21	06/13/18 14:48	71-43-2			
Bromodichloromethane	ND	ug/kg	9.6	0.25	1	06/13/18 10:21	06/13/18 14:48	75-27-4			
Bromoform	ND	ug/kg	9.6	0.65	1	06/13/18 10:21	06/13/18 14:48	75-25-2			
Bromomethane	ND	ug/kg	9.6	0.77	1	06/13/18 10:21	06/13/18 14:48	74-83-9			
2-Butanone (MEK)	ND	ug/kg	95.9	1.2	1	06/13/18 10:21	06/13/18 14:48	78-93-3			
Carbon disulfide	ND	ug/kg	9.6	0.27	1	06/13/18 10:21	06/13/18 14:48	75-15-0			
Carbon tetrachloride	ND	ug/kg	9.6	0.47	1	06/13/18 10:21	06/13/18 14:48	56-23-5			
Chlorobenzene	ND	ug/kg	9.6	0.66	1	06/13/18 10:21	06/13/18 14:48	108-90-7			
Chloroethane	ND	ug/kg	9.6	0.48	1	06/13/18 10:21	06/13/18 14:48	75-00-3			
Chloroform	ND	ug/kg	9.6	0.16	1	06/13/18 10:21	06/13/18 14:48	67-66-3			
Chloromethane	ND	ug/kg	9.6	0.18	1	06/13/18 10:21	06/13/18 14:48	74-87-3			
Cyclohexane	ND	ug/kg	9.6	0.51	1	06/13/18 10:21	06/13/18 14:48	110-82-7			
1,2-Dibromo-3-chloropropane	ND	ug/kg	9.6	0.38	1	06/13/18 10:21	06/13/18 14:48	96-12-8			
Dibromochloromethane	ND	ug/kg	9.6	0.096	1	06/13/18 10:21	06/13/18 14:48	124-48-1			
1,2-Dibromoethane (EDB)	ND	ug/kg	9.6	0.29	1	06/13/18 10:21	06/13/18 14:48	106-93-4			
1,2-Dichlorobenzene	ND	ug/kg	9.6	0.27	1	06/13/18 10:21	06/13/18 14:48	95-50-1			
1,3-Dichlorobenzene	ND	ug/kg	9.6	0.20	1	06/13/18 10:21	06/13/18 14:48	541-73-1			
1,4-Dichlorobenzene	ND	ug/kg	9.6	0.22	1	06/13/18 10:21	06/13/18 14:48	106-46-7			
Dichlorodifluoromethane	ND	ug/kg	9.6	0.31	1	06/13/18 10:21	06/13/18 14:48	75-71-8			
1,1-Dichloroethane	ND	ug/kg	9.6	0.39	1	06/13/18 10:21	06/13/18 14:48	75-34-3			
1,2-Dichloroethane	ND	ug/kg	9.6	0.27	1	06/13/18 10:21	06/13/18 14:48	107-06-2			
1,1-Dichloroethene	ND	ug/kg	9.6	0.26	1	06/13/18 10:21	06/13/18 14:48	75-35-4			
cis-1,2-Dichloroethene	ND	ug/kg	9.6	0.46	1	06/13/18 10:21	06/13/18 14:48	156-59-2			
trans-1,2-Dichloroethene	ND	ug/kg	9.6	0.24	1	06/13/18 10:21	06/13/18 14:48	156-60-5			
1,2-Dichloropropane	ND	ug/kg	9.6	0.34	1	06/13/18 10:21	06/13/18 14:48	78-87-5			
cis-1,3-Dichloropropene	ND	ug/kg	9.6	0.30	1	06/13/18 10:21	06/13/18 14:48	10061-01-5			
trans-1,3-Dichloropropene	ND	ug/kg	9.6	0.30	1	06/13/18 10:21	06/13/18 14:48	10061-02-6			
Ethylbenzene	ND	ug/kg	9.6	0.18	1	06/13/18 10:21	06/13/18 14:48	100-41-4			
2-Hexanone	ND	ug/kg	48.0	0.68	1	06/13/18 10:21	06/13/18 14:48	591-78-6			
Isopropylbenzene (Cumene)	ND	ug/kg	9.6	0.20	1	06/13/18 10:21	06/13/18 14:48	98-82-8			
Methyl acetate	3.4J	ug/kg	9.6	1.1	1	06/13/18 10:21	06/13/18 14:48	79-20-9			
Methylcyclohexane	ND	ug/kg	9.6	0.61	1	06/13/18 10:21	06/13/18 14:48	108-87-2			

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265838

Sample: SED-018876-060718-SAG-301 Lab ID: 265838003 Collected: 06/07/18 08:40 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV 5035	Analytical Method: EPA 8260B Preparation Method: EPA 5035								
Methylene Chloride	ND	ug/kg	19.2	0.55	1	06/13/18 10:21	06/13/18 14:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.0	0.64	1	06/13/18 10:21	06/13/18 14:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	9.6	0.57	1	06/13/18 10:21	06/13/18 14:48	1634-04-4	
Styrene	ND	ug/kg	9.6	0.18	1	06/13/18 10:21	06/13/18 14:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	9.6	0.32	1	06/13/18 10:21	06/13/18 14:48	79-34-5	
Tetrachloroethene	0.75J	ug/kg	9.6	0.34	1	06/13/18 10:21	06/13/18 14:48	127-18-4	
Toluene	ND	ug/kg	9.6	0.47	1	06/13/18 10:21	06/13/18 14:48	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	9.6	0.30	1	06/13/18 10:21	06/13/18 14:48	120-82-1	R1
1,1,1-Trichloroethane	ND	ug/kg	9.6	0.47	1	06/13/18 10:21	06/13/18 14:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	9.6	0.20	1	06/13/18 10:21	06/13/18 14:48	79-00-5	
Trichloroethene	ND	ug/kg	9.6	0.24	1	06/13/18 10:21	06/13/18 14:48	79-01-6	
Trichlorofluoromethane	ND	ug/kg	9.6	0.31	1	06/13/18 10:21	06/13/18 14:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	48.0	0.89	1	06/13/18 10:21	06/13/18 14:48	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/kg	9.6	0.28	1	06/13/18 10:21	06/13/18 14:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	9.6	0.11	1	06/13/18 10:21	06/13/18 14:48	108-67-8	
Vinyl chloride	ND	ug/kg	9.6	0.14	1	06/13/18 10:21	06/13/18 14:48	75-01-4	
Xylene (Total)	ND	ug/kg	9.6	0.53	1	06/13/18 10:21	06/13/18 14:48	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%.	73-114		1	06/13/18 10:21	06/13/18 14:48	1868-53-7	
Toluene-d8 (S)	104	%.	85-109		1	06/13/18 10:21	06/13/18 14:48	2037-26-5	
4-Bromofluorobenzene (S)	110	%.	77-124		1	06/13/18 10:21	06/13/18 14:48	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	69-133		1	06/13/18 10:21	06/13/18 14:48	17060-07-0	
Percent Moisture	Analytical Method: Pace SOP #204								
Percent Moisture	24.1	%	0.10	0.10	1			06/08/18 18:34	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265838

Sample: SED-018876-060718-SAG-302 Lab ID: 265838004 Collected: 06/07/18 10:45 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report					Analyzed	CAS No.	Qual
			Limit	MDL	DF	Prepared				
8082 GCS PCB									Analytical Method: EPA 8082A Preparation Method: EPA 3546	
PCB-1016 (Aroclor 1016)	ND	ug/kg	228	37.2	5	06/14/18 08:00	06/14/18 13:49	12674-11-2		
PCB-1221 (Aroclor 1221)	ND	ug/kg	462	228	5	06/14/18 08:00	06/14/18 13:49	11104-28-2		
PCB-1232 (Aroclor 1232)	ND	ug/kg	228	228	5	06/14/18 08:00	06/14/18 13:49	11141-16-5		
PCB-1242 (Aroclor 1242)	332	ug/kg	228	228	5	06/14/18 08:00	06/14/18 13:49	53469-21-9		
PCB-1248 (Aroclor 1248)	ND	ug/kg	228	228	5	06/14/18 08:00	06/14/18 13:49	12672-29-6		
PCB-1254 (Aroclor 1254)	642	ug/kg	228	228	5	06/14/18 08:00	06/14/18 13:49	11097-69-1		
PCB-1260 (Aroclor 1260)	388	ug/kg	228	28.3	5	06/14/18 08:00	06/14/18 13:49	11096-82-5		
Surrogates										
Decachlorobiphenyl (S)	29	%.	12-139		5	06/14/18 08:00	06/14/18 13:49	2051-24-3		
8260 MSV 5035									Analytical Method: EPA 8260B Preparation Method: EPA 5035	
Acetone	96.6J	ug/kg	104	2.6	1	06/13/18 10:21	06/13/18 15:18	67-64-1		
Benzene	ND	ug/kg	10.4	0.18	1	06/13/18 10:21	06/13/18 15:18	71-43-2		
Bromodichloromethane	ND	ug/kg	10.4	0.27	1	06/13/18 10:21	06/13/18 15:18	75-27-4		
Bromoform	ND	ug/kg	10.4	0.71	1	06/13/18 10:21	06/13/18 15:18	75-25-2		
Bromomethane	ND	ug/kg	10.4	0.83	1	06/13/18 10:21	06/13/18 15:18	74-83-9		
2-Butanone (MEK)	8.2J	ug/kg	104	1.4	1	06/13/18 10:21	06/13/18 15:18	78-93-3		
Carbon disulfide	ND	ug/kg	10.4	0.29	1	06/13/18 10:21	06/13/18 15:18	75-15-0		
Carbon tetrachloride	ND	ug/kg	10.4	0.51	1	06/13/18 10:21	06/13/18 15:18	56-23-5		
Chlorobenzene	ND	ug/kg	10.4	0.72	1	06/13/18 10:21	06/13/18 15:18	108-90-7		
Chloroethane	ND	ug/kg	10.4	0.52	1	06/13/18 10:21	06/13/18 15:18	75-00-3		
Chloroform	ND	ug/kg	10.4	0.18	1	06/13/18 10:21	06/13/18 15:18	67-66-3		
Chloromethane	ND	ug/kg	10.4	0.20	1	06/13/18 10:21	06/13/18 15:18	74-87-3		
Cyclohexane	ND	ug/kg	10.4	0.55	1	06/13/18 10:21	06/13/18 15:18	110-82-7		
1,2-Dibromo-3-chloropropane	ND	ug/kg	10.4	0.42	1	06/13/18 10:21	06/13/18 15:18	96-12-8		
Dibromochloromethane	ND	ug/kg	10.4	0.10	1	06/13/18 10:21	06/13/18 15:18	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	10.4	0.31	1	06/13/18 10:21	06/13/18 15:18	106-93-4		
1,2-Dichlorobenzene	ND	ug/kg	10.4	0.29	1	06/13/18 10:21	06/13/18 15:18	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	10.4	0.22	1	06/13/18 10:21	06/13/18 15:18	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	10.4	0.24	1	06/13/18 10:21	06/13/18 15:18	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	10.4	0.33	1	06/13/18 10:21	06/13/18 15:18	75-71-8		
1,1-Dichloroethane	ND	ug/kg	10.4	0.43	1	06/13/18 10:21	06/13/18 15:18	75-34-3		
1,2-Dichloroethane	ND	ug/kg	10.4	0.29	1	06/13/18 10:21	06/13/18 15:18	107-06-2		
1,1-Dichloroethene	ND	ug/kg	10.4	0.28	1	06/13/18 10:21	06/13/18 15:18	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	10.4	0.50	1	06/13/18 10:21	06/13/18 15:18	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	10.4	0.26	1	06/13/18 10:21	06/13/18 15:18	156-60-5		
1,2-Dichloropropane	ND	ug/kg	10.4	0.36	1	06/13/18 10:21	06/13/18 15:18	78-87-5		
cis-1,3-Dichloropropene	ND	ug/kg	10.4	0.32	1	06/13/18 10:21	06/13/18 15:18	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	10.4	0.32	1	06/13/18 10:21	06/13/18 15:18	10061-02-6		
Ethylbenzene	ND	ug/kg	10.4	0.20	1	06/13/18 10:21	06/13/18 15:18	100-41-4		
2-Hexanone	ND	ug/kg	52.1	0.74	1	06/13/18 10:21	06/13/18 15:18	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	10.4	0.22	1	06/13/18 10:21	06/13/18 15:18	98-82-8		
Methyl acetate	5.7J	ug/kg	10.4	1.1	1	06/13/18 10:21	06/13/18 15:18	79-20-9		
Methylcyclohexane	ND	ug/kg	10.4	0.67	1	06/13/18 10:21	06/13/18 15:18	108-87-2		

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265838

Sample: SED-018876-060718-SAG-302 Lab ID: 265838004 Collected: 06/07/18 10:45 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report				Analyzed	CAS No.	Qual	
			Limit	MDL	DF	Prepared				
8260 MSV 5035									Analytical Method: EPA 8260B Preparation Method: EPA 5035	
Methylene Chloride	ND	ug/kg	20.9	0.59	1	06/13/18 10:21	06/13/18 15:18	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	52.1	0.70	1	06/13/18 10:21	06/13/18 15:18	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	10.4	0.62	1	06/13/18 10:21	06/13/18 15:18	1634-04-4		
Styrene	ND	ug/kg	10.4	0.20	1	06/13/18 10:21	06/13/18 15:18	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/kg	10.4	0.34	1	06/13/18 10:21	06/13/18 15:18	79-34-5		
Tetrachloroethene	ND	ug/kg	10.4	0.36	1	06/13/18 10:21	06/13/18 15:18	127-18-4		
Toluene	ND	ug/kg	10.4	0.51	1	06/13/18 10:21	06/13/18 15:18	108-88-3		
1,2,4-Trichlorobenzene	ND	ug/kg	10.4	0.32	1	06/13/18 10:21	06/13/18 15:18	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	10.4	0.51	1	06/13/18 10:21	06/13/18 15:18	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	10.4	0.22	1	06/13/18 10:21	06/13/18 15:18	79-00-5		
Trichloroethene	ND	ug/kg	10.4	0.26	1	06/13/18 10:21	06/13/18 15:18	79-01-6		
Trichlorofluoromethane	ND	ug/kg	10.4	0.33	1	06/13/18 10:21	06/13/18 15:18	75-69-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/kg	52.1	0.97	1	06/13/18 10:21	06/13/18 15:18	76-13-1		
1,2,4-Trimethylbenzene	ND	ug/kg	10.4	0.30	1	06/13/18 10:21	06/13/18 15:18	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	10.4	0.11	1	06/13/18 10:21	06/13/18 15:18	108-67-8		
Vinyl chloride	ND	ug/kg	10.4	0.16	1	06/13/18 10:21	06/13/18 15:18	75-01-4		
Xylene (Total)	ND	ug/kg	10.4	0.57	1	06/13/18 10:21	06/13/18 15:18	1330-20-7		
Surrogates										
Dibromofluoromethane (S)	99	%.	73-114		1	06/13/18 10:21	06/13/18 15:18	1868-53-7		
Toluene-d8 (S)	105	%.	85-109		1	06/13/18 10:21	06/13/18 15:18	2037-26-5		
4-Bromofluorobenzene (S)	118	%.	77-124		1	06/13/18 10:21	06/13/18 15:18	460-00-4		
1,2-Dichloroethane-d4 (S)	105	%.	69-133		1	06/13/18 10:21	06/13/18 15:18	17060-07-0		
Percent Moisture										
Percent Moisture	28.2	%	0.10	0.10	1				06/08/18 18:36	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265838

Sample: SO-018876-060718-SAG-401 Lab ID: 265838005 Collected: 06/07/18 09:00 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8082 GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	357	58.4	5	06/14/18 08:00	06/14/18 14:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	725	357	5	06/14/18 08:00	06/14/18 14:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	357	357	5	06/14/18 08:00	06/14/18 14:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	357	357	5	06/14/18 08:00	06/14/18 14:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	357	357	5	06/14/18 08:00	06/14/18 14:09	12672-29-6	
PCB-1254 (Aroclor 1254)	1000	ug/kg	357	357	5	06/14/18 08:00	06/14/18 14:09	11097-69-1	
PCB-1260 (Aroclor 1260)	562	ug/kg	357	44.4	5	06/14/18 08:00	06/14/18 14:09	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	32	%.	12-139		5	06/14/18 08:00	06/14/18 14:09	2051-24-3	
Percent Moisture Analytical Method: Pace SOP #204									
Percent Moisture	54.0	%	0.10	0.10	1			06/08/18 18:37	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265838

Sample: SO-018876-060718-SAG-402 Lab ID: 265838006 Collected: 06/07/18 09:15 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report					Analyzed	CAS No.	Qual
			Limit	MDL	DF	Prepared				
8082 GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546										
PCB-1016 (Aroclor 1016)	ND	ug/kg	47.9	7.8	1	06/14/18 08:00	06/14/18 14:30	12674-11-2		
PCB-1221 (Aroclor 1221)	ND	ug/kg	97.3	47.9	1	06/14/18 08:00	06/14/18 14:30	11104-28-2		
PCB-1232 (Aroclor 1232)	ND	ug/kg	47.9	47.9	1	06/14/18 08:00	06/14/18 14:30	11141-16-5		
PCB-1242 (Aroclor 1242)	ND	ug/kg	47.9	47.9	1	06/14/18 08:00	06/14/18 14:30	53469-21-9		
PCB-1248 (Aroclor 1248)	ND	ug/kg	47.9	47.9	1	06/14/18 08:00	06/14/18 14:30	12672-29-6		
PCB-1254 (Aroclor 1254)	112	ug/kg	47.9	47.9	1	06/14/18 08:00	06/14/18 14:30	11097-69-1		
PCB-1260 (Aroclor 1260)	41.3J	ug/kg	47.9	6.0	1	06/14/18 08:00	06/14/18 14:30	11096-82-5		
Surrogates										
Decachlorobiphenyl (S)	34	%.	12-139			1	06/14/18 08:00	06/14/18 14:30	2051-24-3	
Percent Moisture Analytical Method: Pace SOP #204										
Percent Moisture	32.1	%	0.10	0.10	1			06/08/18 18:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265838

Sample: SO-018876-060718-SAG-403 Lab ID: 265838007 Collected: 06/07/18 09:20 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report					Analyzed	CAS No.	Qual
			Limit	MDL	DF	Prepared				
8082 GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546										
PCB-1016 (Aroclor 1016)	ND	ug/kg	48.2	7.9	1	06/14/18 08:00	06/14/18 14:52	12674-11-2		
PCB-1221 (Aroclor 1221)	ND	ug/kg	97.8	48.2	1	06/14/18 08:00	06/14/18 14:52	11104-28-2		
PCB-1232 (Aroclor 1232)	ND	ug/kg	48.2	48.2	1	06/14/18 08:00	06/14/18 14:52	11141-16-5		
PCB-1242 (Aroclor 1242)	ND	ug/kg	48.2	48.2	1	06/14/18 08:00	06/14/18 14:52	53469-21-9		
PCB-1248 (Aroclor 1248)	ND	ug/kg	48.2	48.2	1	06/14/18 08:00	06/14/18 14:52	12672-29-6		
PCB-1254 (Aroclor 1254)	149	ug/kg	48.2	48.2	1	06/14/18 08:00	06/14/18 14:52	11097-69-1		
PCB-1260 (Aroclor 1260)	41.5J	ug/kg	48.2	6.0	1	06/14/18 08:00	06/14/18 14:52	11096-82-5		
Surrogates										
Decachlorobiphenyl (S)	33	%.	12-139			1	06/14/18 08:00	06/14/18 14:52	2051-24-3	
Percent Moisture Analytical Method: Pace SOP #204										
Percent Moisture	31.6	%	0.10	0.10	1				06/08/18 18:39	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265838

Sample: SO-018876-060718-SAG-404 Lab ID: 265838008 Collected: 06/07/18 09:40 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report					Analyzed	CAS No.	Qual
			Limit	MDL	DF	Prepared				
8082 GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546										
PCB-1016 (Aroclor 1016)	ND	ug/kg	45.4	7.4	1	06/14/18 08:00	06/14/18 15:12	12674-11-2		
PCB-1221 (Aroclor 1221)	ND	ug/kg	92.2	45.4	1	06/14/18 08:00	06/14/18 15:12	11104-28-2		
PCB-1232 (Aroclor 1232)	ND	ug/kg	45.4	45.4	1	06/14/18 08:00	06/14/18 15:12	11141-16-5		
PCB-1242 (Aroclor 1242)	ND	ug/kg	45.4	45.4	1	06/14/18 08:00	06/14/18 15:12	53469-21-9		
PCB-1248 (Aroclor 1248)	ND	ug/kg	45.4	45.4	1	06/14/18 08:00	06/14/18 15:12	12672-29-6		
PCB-1254 (Aroclor 1254)	ND	ug/kg	45.4	45.4	1	06/14/18 08:00	06/14/18 15:12	11097-69-1		
PCB-1260 (Aroclor 1260)	ND	ug/kg	45.4	5.6	1	06/14/18 08:00	06/14/18 15:12	11096-82-5		
Surrogates										
Decachlorobiphenyl (S)	41	%.	12-139			1	06/14/18 08:00	06/14/18 15:12	2051-24-3	
Percent Moisture Analytical Method: Pace SOP #204										
Percent Moisture	28.2	%	0.10	0.10	1				06/08/18 18:41	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265838

Sample: SO-018876-060718-SAG-405 Lab ID: 265838009 Collected: 06/07/18 09:45 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report		Prepared	Analyzed	CAS No.	Qual				
			Limit	MDL								
8082 GCS PCB												
			Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	206	33.7	5	06/14/18 08:00	06/14/18 16:34	12674-11-2				
PCB-1221 (Aroclor 1221)	ND	ug/kg	418	206	5	06/14/18 08:00	06/14/18 16:34	11104-28-2				
PCB-1232 (Aroclor 1232)	ND	ug/kg	206	206	5	06/14/18 08:00	06/14/18 16:34	11141-16-5				
PCB-1242 (Aroclor 1242)	ND	ug/kg	206	206	5	06/14/18 08:00	06/14/18 16:34	53469-21-9				
PCB-1248 (Aroclor 1248)	ND	ug/kg	206	206	5	06/14/18 08:00	06/14/18 16:34	12672-29-6				
PCB-1254 (Aroclor 1254)	ND	ug/kg	206	206	5	06/14/18 08:00	06/14/18 16:34	11097-69-1				
PCB-1260 (Aroclor 1260)	ND	ug/kg	206	25.6	5	06/14/18 08:00	06/14/18 16:34	11096-82-5				
Surrogates												
Decachlorobiphenyl (S)	40	%.	12-139		5	06/14/18 08:00	06/14/18 16:34	2051-24-3				
Percent Moisture												
Percent Moisture	20.5	%	0.10	0.10	1		06/08/18 18:41					

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265838

Sample: SO-018876-060718-SAG-406 Lab ID: 265838010 Collected: 06/07/18 10:00 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report					Analyzed	CAS No.	Qual
			Limit	MDL	DF	Prepared				
8082 GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546										
PCB-1016 (Aroclor 1016)	ND	ug/kg	271	44.3	5	06/14/18 08:00	06/14/18 16:55	12674-11-2		
PCB-1221 (Aroclor 1221)	ND	ug/kg	550	271	5	06/14/18 08:00	06/14/18 16:55	11104-28-2		
PCB-1232 (Aroclor 1232)	ND	ug/kg	271	271	5	06/14/18 08:00	06/14/18 16:55	11141-16-5		
PCB-1242 (Aroclor 1242)	ND	ug/kg	271	271	5	06/14/18 08:00	06/14/18 16:55	53469-21-9		
PCB-1248 (Aroclor 1248)	ND	ug/kg	271	271	5	06/14/18 08:00	06/14/18 16:55	12672-29-6		
PCB-1254 (Aroclor 1254)	1610	ug/kg	271	271	5	06/14/18 08:00	06/14/18 16:55	11097-69-1		
PCB-1260 (Aroclor 1260)	812	ug/kg	271	33.6	5	06/14/18 08:00	06/14/18 16:55	11096-82-5		
Surrogates										
Decachlorobiphenyl (S)	47	%.	12-139		5	06/14/18 08:00	06/14/18 16:55	2051-24-3		
Percent Moisture Analytical Method: Pace SOP #204										
Percent Moisture	39.7	%	0.10	0.10	1			06/08/18 18:42		

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876

Pace Project No.: 265838

Sample: Trip Blank	Lab ID: 265838011	Collected: 06/07/18 00:00	Received: 06/07/18 12:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
Acetone	ND	ug/L	25.0	8.2	1		06/13/18 12:15	67-64-1	
Benzene	ND	ug/L	1.0	0.20	1		06/13/18 12:15	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.36	1		06/13/18 12:15	75-27-4	
Bromoform	ND	ug/L	1.0	0.55	1		06/13/18 12:15	75-25-2	
Bromomethane	ND	ug/L	2.0	0.95	1		06/13/18 12:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	3.2	1		06/13/18 12:15	78-93-3	
Carbon disulfide	ND	ug/L	10.0	0.79	1		06/13/18 12:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.42	1		06/13/18 12:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.53	1		06/13/18 12:15	108-90-7	
Chloroethane	ND	ug/L	1.0	0.52	1		06/13/18 12:15	75-00-3	
Chloroform	ND	ug/L	1.0	0.58	1		06/13/18 12:15	67-66-3	
Chloromethane	ND	ug/L	1.0	0.38	1		06/13/18 12:15	74-87-3	
Cyclohexane	ND	ug/L	10.0	1.6	1		06/13/18 12:15	110-82-7	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	0.55	1		06/13/18 12:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.31	1		06/13/18 12:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	0.28	1		06/13/18 12:15	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.49	1		06/13/18 12:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1		06/13/18 12:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.58	1		06/13/18 12:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.48	1		06/13/18 12:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.41	1		06/13/18 12:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.67	1		06/13/18 12:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.72	1		06/13/18 12:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.66	1		06/13/18 12:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.46	1		06/13/18 12:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.60	1		06/13/18 12:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.22	1		06/13/18 12:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.30	1		06/13/18 12:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.45	1		06/13/18 12:15	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.89	1		06/13/18 12:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0	0.43	1		06/13/18 12:15	98-82-8	
Methyl acetate	ND	ug/L	10.0	1.5	1		06/13/18 12:15	79-20-9	
Methylcyclohexane	ND	ug/L	10.0	1.4	1		06/13/18 12:15	108-87-2	
Methylene Chloride	ND	ug/L	1.0	0.50	1		06/13/18 12:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.86	1		06/13/18 12:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	1.6	1		06/13/18 12:15	1634-04-4	
Styrene	ND	ug/L	1.0	0.50	1		06/13/18 12:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.53	1		06/13/18 12:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.78	1		06/13/18 12:15	127-18-4	
Toluene	ND	ug/L	1.0	0.31	1		06/13/18 12:15	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.47	1		06/13/18 12:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		06/13/18 12:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.59	1		06/13/18 12:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.34	1		06/13/18 12:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.51	1		06/13/18 12:15	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	1.4	1		06/13/18 12:15	76-13-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
 Pace Project No.: 265838

Sample: Trip Blank	Lab ID: 265838011		Collected: 06/07/18 00:00	Received: 06/07/18 12:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV Water, Extend	Analytical Method: EPA 8260B								
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.46	1		06/13/18 12:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.62	1		06/13/18 12:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.60	1		06/13/18 12:15	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1.5	1		06/13/18 12:15	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%.	81-119		1		06/13/18 12:15	17060-07-0	
Dibromofluoromethane (S)	97	%.	82-114		1		06/13/18 12:15	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	82-120		1		06/13/18 12:15	460-00-4	
Toluene-d8 (S)	103	%.	82-109		1		06/13/18 12:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876
 Pace Project No.: 265838

QC Batch:	7878	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 5035	Analysis Description:	8260 MSV 5035 Low
Associated Lab Samples:	265838003, 265838004		

METHOD BLANK: 36529 Matrix: Solid

Associated Lab Samples: 265838003, 265838004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	10.0	0.49	06/13/18 13:18	
1,1,2,2-Tetrachloroethane	ug/kg	ND	10.0	0.33	06/13/18 13:18	
1,1,2-Trichloroethane	ug/kg	ND	10.0	0.21	06/13/18 13:18	
1,1,2-Trichlorotrifluoroethane	ug/kg	ND	50.0	0.93	06/13/18 13:18	
1,1-Dichloroethane	ug/kg	ND	10.0	0.41	06/13/18 13:18	
1,1-Dichloroethene	ug/kg	ND	10.0	0.27	06/13/18 13:18	
1,2,4-Trichlorobenzene	ug/kg	ND	10.0	0.31	06/13/18 13:18	
1,2,4-Trimethylbenzene	ug/kg	ND	10.0	0.29	06/13/18 13:18	
1,2-Dibromo-3-chloropropane	ug/kg	ND	10.0	0.40	06/13/18 13:18	
1,2-Dibromoethane (EDB)	ug/kg	ND	10.0	0.30	06/13/18 13:18	
1,2-Dichlorobenzene	ug/kg	ND	10.0	0.28	06/13/18 13:18	
1,2-Dichloroethane	ug/kg	ND	10.0	0.28	06/13/18 13:18	
1,2-Dichloropropane	ug/kg	ND	10.0	0.35	06/13/18 13:18	
1,3,5-Trimethylbenzene	ug/kg	ND	10.0	0.11	06/13/18 13:18	
1,3-Dichlorobenzene	ug/kg	ND	10.0	0.21	06/13/18 13:18	
1,4-Dichlorobenzene	ug/kg	ND	10.0	0.23	06/13/18 13:18	
2-Butanone (MEK)	ug/kg	ND	100	1.3	06/13/18 13:18	
2-Hexanone	ug/kg	ND	50.0	0.71	06/13/18 13:18	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	0.67	06/13/18 13:18	
Acetone	ug/kg	ND	100	2.5	06/13/18 13:18	
Benzene	ug/kg	ND	10.0	0.17	06/13/18 13:18	
Bromodichloromethane	ug/kg	ND	10.0	0.26	06/13/18 13:18	
Bromoform	ug/kg	ND	10.0	0.68	06/13/18 13:18	
Bromomethane	ug/kg	ND	10.0	0.80	06/13/18 13:18	
Carbon disulfide	ug/kg	ND	10.0	0.28	06/13/18 13:18	
Carbon tetrachloride	ug/kg	ND	10.0	0.49	06/13/18 13:18	
Chlorobenzene	ug/kg	ND	10.0	0.69	06/13/18 13:18	
Chloroethane	ug/kg	ND	10.0	0.50	06/13/18 13:18	
Chloroform	ug/kg	ND	10.0	0.17	06/13/18 13:18	
Chloromethane	ug/kg	ND	10.0	0.19	06/13/18 13:18	
cis-1,2-Dichloroethene	ug/kg	ND	10.0	0.48	06/13/18 13:18	
cis-1,3-Dichloropropene	ug/kg	ND	10.0	0.31	06/13/18 13:18	
Cyclohexane	ug/kg	ND	10.0	0.53	06/13/18 13:18	
Dibromochloromethane	ug/kg	ND	10.0	0.10	06/13/18 13:18	
Dichlorodifluoromethane	ug/kg	ND	10.0	0.32	06/13/18 13:18	
Ethylbenzene	ug/kg	ND	10.0	0.19	06/13/18 13:18	
Isopropylbenzene (Cumene)	ug/kg	ND	10.0	0.21	06/13/18 13:18	
Methyl acetate	ug/kg	ND	10.0	1.1	06/13/18 13:18	
Methyl-tert-butyl ether	ug/kg	ND	10.0	0.59	06/13/18 13:18	
Methylcyclohexane	ug/kg	ND	10.0	0.64	06/13/18 13:18	
Methylene Chloride	ug/kg	ND	20.0	0.57	06/13/18 13:18	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265838

METHOD BLANK: 36529

Matrix: Solid

Associated Lab Samples: 265838003, 265838004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Styrene	ug/kg	ND	10.0	0.19	06/13/18 13:18	
Tetrachloroethene	ug/kg	ND	10.0	0.35	06/13/18 13:18	
Toluene	ug/kg	ND	10.0	0.49	06/13/18 13:18	
trans-1,2-Dichloroethene	ug/kg	ND	10.0	0.25	06/13/18 13:18	
trans-1,3-Dichloropropene	ug/kg	ND	10.0	0.31	06/13/18 13:18	
Trichloroethene	ug/kg	ND	10.0	0.25	06/13/18 13:18	
Trichlorofluoromethane	ug/kg	ND	10.0	0.32	06/13/18 13:18	
Vinyl chloride	ug/kg	ND	10.0	0.15	06/13/18 13:18	
Xylene (Total)	ug/kg	ND	10.0	0.55	06/13/18 13:18	
1,2-Dichloroethane-d4 (S)	%.	101	69-133		06/13/18 13:18	
4-Bromofluorobenzene (S)	%.	106	77-124		06/13/18 13:18	
Dibromofluoromethane (S)	%.	97	73-114		06/13/18 13:18	
Toluene-d8 (S)	%.	103	85-109		06/13/18 13:18	

LABORATORY CONTROL SAMPLE: 36530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	56.5	113	71-149	
1,1,2,2-Tetrachloroethane	ug/kg	50	54.2	108	70-134	
1,1,2-Trichloroethane	ug/kg	50	51.8	104	74-139	
1,1-Dichloroethane	ug/kg	50	53.6	107	81-140	
1,1-Dichloroethene	ug/kg	50	54.3	109	68-150	
1,2,4-Trichlorobenzene	ug/kg	50	63.6	127	49-147	
1,2,4-Trimethylbenzene	ug/kg	50	60.2	120	64-137	
1,2-Dibromo-3-chloropropane	ug/kg	50	50.8	102	80-134	
1,2-Dibromoethane (EDB)	ug/kg	50	58.3	117	70-143	
1,2-Dichlorobenzene	ug/kg	50	54.7	109	59-162	
1,2-Dichloroethane	ug/kg	50	50.3	101	69-135	
1,2-Dichloropropane	ug/kg	50	54.1	108	68-147	
1,3,5-Trimethylbenzene	ug/kg	50	59.2	118	68-138	
1,3-Dichlorobenzene	ug/kg	50	54.1	108	67-152	
1,4-Dichlorobenzene	ug/kg	50	52.4	105	72-138	
2-Butanone (MEK)	ug/kg	100	114	114	52-163	
2-Hexanone	ug/kg	100	109	109	60-186	
4-Methyl-2-pentanone (MIBK)	ug/kg	100	104	104	80-129	
Acetone	ug/kg	100	135	135	52-160	
Benzene	ug/kg	50	52.8	106	70-141	
Bromodichloromethane	ug/kg	50	51.8	104	68-125	
Bromoform	ug/kg	50	50.2	100	65-140	
Bromomethane	ug/kg	50	68.8	138	41-148	
Carbon disulfide	ug/kg	100	118	118	72-138	
Carbon tetrachloride	ug/kg	50	57.1	114	57-146	
Chlorobenzene	ug/kg	50	54.6	109	65-133	
Chloroethane	ug/kg	50	53.6	107	48-143	

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265838

LABORATORY CONTROL SAMPLE: 36530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/kg	50	53.7	107	72-138	
Chloromethane	ug/kg	50	51.6	103	41-147	
cis-1,2-Dichloroethene	ug/kg	50	55.3	111	71-142	
cis-1,3-Dichloropropene	ug/kg	50	51.5	103	69-129	
Dibromochloromethane	ug/kg	50	50.7	101	64-122	
Dichlorodifluoromethane	ug/kg	50	54.9	110	18-147	
Ethylbenzene	ug/kg	50	54.4	109	70-143	
Isopropylbenzene (Cumene)	ug/kg	50	61.1	122	65-140	
Methyl-tert-butyl ether	ug/kg	100	107	107	80-126	
Methylene Chloride	ug/kg	50	55.3	111	71-136	
Styrene	ug/kg	50	61.0	122	68-134	
Tetrachloroethene	ug/kg	50	56.1	112	59-144	
Toluene	ug/kg	50	52.9	106	62-142	
trans-1,2-Dichloroethene	ug/kg	50	53.1	106	71-138	
trans-1,3-Dichloropropene	ug/kg	50	51.2	102	68-131	
Trichloroethene	ug/kg	50	54.8	110	65-152	
Trichlorofluoromethane	ug/kg	50	52.9	106	64-133	
Vinyl chloride	ug/kg	50	55.0	110	53-141	
Xylene (Total)	ug/kg	150	175	117	61-122	
1,2-Dichloroethane-d4 (S)	%.			99	69-133	
4-Bromofluorobenzene (S)	%.			101	77-124	
Dibromofluoromethane (S)	%.			101	73-114	
Toluene-d8 (S)	%.			101	85-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 36531
36532

Parameter	Units	265838003		MSD		MS Result	% Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result							
1,1,1-Trichloroethane	ug/kg	ND	64	66.1	63.0	70.5	98	107	42-146	11	25	
1,1,2,2-Tetrachloroethane	ug/kg	ND	64	66.1	47.8	53.4	75	81	25-144	11	18	
1,1,2-Trichloroethane	ug/kg	ND	64	66.1	51.7	55.0	81	83	52-130	6	26	
1,1-Dichloroethane	ug/kg	ND	64	66.1	64.1	68.7	100	104	52-145	7	24	
1,1-Dichloroethene	ug/kg	ND	64	66.1	62.2	68.7	97	104	39-154	10	27	
1,2,4-Trichlorobenzene	ug/kg	ND	64	66.1	39.8	58.2	62	88	21-130	38	28	R1
1,2,4-Trimethylbenzene	ug/kg	ND	64	66.1	53.2	66.2	83	100	13-152	22	31	
1,2-Dibromo-3-chloropropane	ug/kg	ND	64	66.1	37.1	41.6	58	63	42-120	11	81	
1,2-Dibromoethane (EDB)	ug/kg	ND	64	66.1	53.0	57.3	83	87	39-139	8	29	
1,2-Dichlorobenzene	ug/kg	ND	64	66.1	48.0	58.4	75	88	10-182	20	64	
1,2-Dichloroethane	ug/kg	ND	64	66.1	49.4	51.9	77	79	58-118	5	23	
1,2-Dichloropropane	ug/kg	ND	64	66.1	61.9	66.6	97	101	51-136	7	24	
1,3,5-Trimethylbenzene	ug/kg	ND	64	66.1	59.5	73.0	93	111	22-146	20	31	
1,3-Dichlorobenzene	ug/kg	ND	64	66.1	50.4	61.5	79	93	15-161	20	42	
1,4-Dichlorobenzene	ug/kg	ND	64	66.1	47.9	58.5	75	89	15-164	20	36	
2-Butanone (MEK)	ug/kg	ND	128	132	77.9J	80.5J	61	61	22-158		30	

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265838

Parameter	Units	265838003		MS		MSD		36532				
		Result	Conc.	Spike	Spike	MS	MSD	MS	MSD	% Rec	% Rec	Max
				Conc.	Result	Result	% Rec	Result	Result			
2-Hexanone	ug/kg	ND	128	132	68.7	72.4	54	55	10-198	5	50	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	128	132	80.4	83.6	63	63	29-135	4	33	
Acetone	ug/kg	99.4	128	132	76.2J	74.0J	-18	-19	59-136		27	M1
Benzene	ug/kg	ND	64	66.1	58.6	64.1	92	97	42-140	9	25	
Bromodichloromethane	ug/kg	ND	64	66.1	54.0	59.8	84	90	39-123	10	24	
Bromoform	ug/kg	ND	64	66.1	39.5	44.9	62	68	30-136	13	22	
Bromomethane	ug/kg	ND	64	66.1	75.7	79.5	118	120	10-164	5	31	
Carbon disulfide	ug/kg	ND	128	132	121	135	95	102	55-135	10	24	
Carbon tetrachloride	ug/kg	ND	64	66.1	60.7	68.6	95	104	33-136	12	27	
Chlorobenzene	ug/kg	ND	64	66.1	56.5	65.0	88	98	28-144	14	31	
Chloroethane	ug/kg	ND	64	66.1	56.0	59.2	88	90	10-163	5	30	
Chloroform	ug/kg	ND	64	66.1	59.7	64.3	93	97	52-131	7	23	
Chloromethane	ug/kg	ND	64	66.1	60.8	62.6	95	95	28-149	3	28	
cis-1,2-Dichloroethene	ug/kg	ND	64	66.1	58.6	66.7	92	101	50-134	13	23	
cis-1,3-Dichloropropene	ug/kg	ND	64	66.1	50.2	56.0	78	85	39-125	11	28	
Dibromochloromethane	ug/kg	ND	64	66.1	46.1	51.7	72	78	32-118	12	29	
Dichlorodifluoromethane	ug/kg	ND	64	66.1	51.9	55.3	81	84	10-158	6	44	
Ethylbenzene	ug/kg	ND	64	66.1	57.6	65.9	90	100	13-164	13	33	
Isopropylbenzene (Cumene)	ug/kg	ND	64	66.1	56.1	66.1	88	100	13-156	16	33	
Methyl-tert-butyl ether	ug/kg	ND	128	132	108	113	85	85	73-131	4	36	
Methylene Chloride	ug/kg	ND	64	66.1	62.3	66.3	97	100	53-138	6	26	
Styrene	ug/kg	ND	64	66.1	60.1	69.1	94	105	16-151	14	33	
Tetrachloroethene	ug/kg	0.75J	64	66.1	52.1	61.1	80	91	33-141	16	32	
Toluene	ug/kg	ND	64	66.1	58.4	64.8	91	98	32-145	10	31	
trans-1,2-Dichloroethene	ug/kg	ND	64	66.1	61.6	65.3	96	99	43-144	6	26	
trans-1,3-Dichloropropene	ug/kg	ND	64	66.1	46.5	52.0	73	79	30-130	11	33	
Trichloroethene	ug/kg	ND	64	66.1	57.1	63.3	89	96	16-172	10	30	
Trichlorofluoromethane	ug/kg	ND	64	66.1	57.1	61.0	89	92	14-149	7	32	
Vinyl chloride	ug/kg	ND	64	66.1	58.7	63.1	92	95	40-140	7	28	
Xylene (Total)	ug/kg	ND	192	198	184	213	96	107	19-120	15	28	
1,2-Dichloroethane-d4 (S)	%.						88		69-133			
4-Bromofluorobenzene (S)	%.						101		103	77-124		
Dibromofluoromethane (S)	%.						98		97	73-114		
Toluene-d8 (S)	%.						106		105	85-109		

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265838

QC Batch: 7892 Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B Analysis Description: 8260B MSV Water, Extend

Associated Lab Samples: 265838001, 265838002, 265838011

METHOD BLANK: 36616 Matrix: Water

Associated Lab Samples: 265838001, 265838002, 265838011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.38	06/13/18 11:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.53	06/13/18 11:50	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.59	06/13/18 11:50	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	10.0	1.4	06/13/18 11:50	
1,1-Dichloroethane	ug/L	ND	1.0	0.41	06/13/18 11:50	
1,1-Dichloroethene	ug/L	ND	1.0	0.72	06/13/18 11:50	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.47	06/13/18 11:50	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.46	06/13/18 11:50	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	0.55	06/13/18 11:50	
1,2-Dibromoethane (EDB)	ug/L	ND	2.0	0.28	06/13/18 11:50	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.49	06/13/18 11:50	
1,2-Dichloroethane	ug/L	ND	1.0	0.67	06/13/18 11:50	
1,2-Dichloropropane	ug/L	ND	1.0	0.60	06/13/18 11:50	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.62	06/13/18 11:50	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.59	06/13/18 11:50	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.58	06/13/18 11:50	
2-Butanone (MEK)	ug/L	ND	5.0	3.2	06/13/18 11:50	
2-Hexanone	ug/L	ND	5.0	0.89	06/13/18 11:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	0.86	06/13/18 11:50	
Acetone	ug/L	ND	25.0	8.2	06/13/18 11:50	
Benzene	ug/L	ND	1.0	0.20	06/13/18 11:50	
Bromodichloromethane	ug/L	ND	1.0	0.36	06/13/18 11:50	
Bromoform	ug/L	ND	1.0	0.55	06/13/18 11:50	
Bromomethane	ug/L	ND	2.0	0.95	06/13/18 11:50	
Carbon disulfide	ug/L	ND	10.0	0.79	06/13/18 11:50	
Carbon tetrachloride	ug/L	ND	1.0	0.42	06/13/18 11:50	
Chlorobenzene	ug/L	ND	1.0	0.53	06/13/18 11:50	
Chloroethane	ug/L	ND	1.0	0.52	06/13/18 11:50	
Chloroform	ug/L	ND	1.0	0.58	06/13/18 11:50	
Chloromethane	ug/L	ND	1.0	0.38	06/13/18 11:50	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.66	06/13/18 11:50	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.22	06/13/18 11:50	
Cyclohexane	ug/L	ND	10.0	1.6	06/13/18 11:50	
Dibromochloromethane	ug/L	ND	1.0	0.31	06/13/18 11:50	
Dichlorodifluoromethane	ug/L	ND	1.0	0.48	06/13/18 11:50	
Ethylbenzene	ug/L	ND	1.0	0.45	06/13/18 11:50	
Isopropylbenzene (Cumene)	ug/L	ND	10.0	0.43	06/13/18 11:50	
Methyl acetate	ug/L	ND	10.0	1.5	06/13/18 11:50	
Methyl-tert-butyl ether	ug/L	ND	10.0	1.6	06/13/18 11:50	
Methylcyclohexane	ug/L	ND	10.0	1.4	06/13/18 11:50	
Methylene Chloride	ug/L	ND	1.0	0.50	06/13/18 11:50	

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265838

METHOD BLANK: 36616 Matrix: Water

Associated Lab Samples: 265838001, 265838002, 265838011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Styrene	ug/L	ND	1.0	0.50	06/13/18 11:50	
Tetrachloroethene	ug/L	ND	1.0	0.78	06/13/18 11:50	
Toluene	ug/L	ND	1.0	0.31	06/13/18 11:50	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.46	06/13/18 11:50	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.30	06/13/18 11:50	
Trichloroethene	ug/L	ND	1.0	0.34	06/13/18 11:50	
Trichlorofluoromethane	ug/L	ND	1.0	0.51	06/13/18 11:50	
Vinyl chloride	ug/L	ND	1.0	0.60	06/13/18 11:50	
Xylene (Total)	ug/L	ND	2.0	1.5	06/13/18 11:50	
1,2-Dichloroethane-d4 (S)	%.	99	81-119		06/13/18 11:50	
4-Bromofluorobenzene (S)	%.	102	82-120		06/13/18 11:50	
Dibromofluoromethane (S)	%.	94	82-114		06/13/18 11:50	
Toluene-d8 (S)	%.	105	82-109		06/13/18 11:50	

LABORATORY CONTROL SAMPLE: 36617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.4	119	72-134	
1,1,2,2-Tetrachloroethane	ug/L	50	53.4	107	51-158	
1,1,2-Trichloroethane	ug/L	50	51.1	102	78-131	
1,1-Dichloroethane	ug/L	50	50.3	101	69-151	
1,1-Dichloroethene	ug/L	50	55.1	110	64-158	
1,2,4-Trichlorobenzene	ug/L	50	57.4	115	51-163	
1,2,4-Trimethylbenzene	ug/L	50	55.6	111	63-137	
1,2-Dibromo-3-chloropropane	ug/L	50	49.5	99	58-124	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	71-134	
1,2-Dichlorobenzene	ug/L	50	56.1	112	70-135	
1,2-Dichloroethane	ug/L	50	47.2	94	72-129	
1,2-Dichloropropane	ug/L	50	52.8	106	64-135	
1,3,5-Trimethylbenzene	ug/L	50	55.7	111	70-142	
1,3-Dichlorobenzene	ug/L	50	55.3	111	71-134	
1,4-Dichlorobenzene	ug/L	50	52.5	105	70-131	
2-Butanone (MEK)	ug/L	100	115	115	52-143	
2-Hexanone	ug/L	100	114	114	61-136	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.5	98	71-129	
Acetone	ug/L	100	125	125	48-224	
Benzene	ug/L	50	52.8	106	68-132	
Bromodichloromethane	ug/L	50	47.7	95	67-121	
Bromoform	ug/L	50	46.2	92	57-125	
Bromomethane	ug/L	50	47.1	94	35-156	
Carbon disulfide	ug/L	100	94.5	95	47-141	
Carbon tetrachloride	ug/L	50	53.6	107	66-122	
Chlorobenzene	ug/L	50	51.9	104	71-126	
Chloroethane	ug/L	50	45.9	92	43-143	

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265838

LABORATORY CONTROL SAMPLE: 36617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	50	51.6	103	71-136	
Chloromethane	ug/L	50	49.4	99	47-123	
cis-1,2-Dichloroethene	ug/L	50	54.2	108	74-131	
cis-1,3-Dichloropropene	ug/L	50	49.0	98	78-120	
Dibromochloromethane	ug/L	50	47.6	95	65-115	
Dichlorodifluoromethane	ug/L	50	46.4	93	29-124	
Ethylbenzene	ug/L	50	54.6	109	68-129	
Isopropylbenzene (Cumene)	ug/L	50	49.2	98	64-129	
Methyl-tert-butyl ether	ug/L	100	102	102	59-130	
Methylene Chloride	ug/L	50	50.4	101	61-147	
Styrene	ug/L	50	51.8	104	77-128	
Tetrachloroethene	ug/L	50	40.8	82	51-139	
Toluene	ug/L	50	55.2	110	60-133	
trans-1,2-Dichloroethene	ug/L	50	50.0	100	69-144	
trans-1,3-Dichloropropene	ug/L	50	48.2	96	74-128	
Trichloroethene	ug/L	50	47.4	95	73-126	
Trichlorofluoromethane	ug/L	50	51.9	104	55-132	
Vinyl chloride	ug/L	50	53.7	107	50-133	
Xylene (Total)	ug/L	150	168	112	78-132	
1,2-Dichloroethane-d4 (S)	%.			95	81-119	
4-Bromofluorobenzene (S)	%.			106	82-120	
Dibromofluoromethane (S)	%.			102	82-114	
Toluene-d8 (S)	%.			102	82-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 36618
36619

Parameter	Units	265838001		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		
		Result	Spike Conc.	Spike Conc.	Result				RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	67.5	68.2	135	136	66-142	1	11
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	52.2	53.0	104	106	39-171	2	13
1,1,2-Trichloroethane	ug/L	ND	50	50	50.0	50.9	100	102	73-136	2	12
1,1-Dichloroethane	ug/L	0.51J	50	50	52.8	53.3	104	106	66-155	1	15
1,1-Dichloroethene	ug/L	ND	50	50	66.2	65.0	132	130	33-181	2	34
1,2,4-Trichlorobenzene	ug/L	ND	50	50	54.4	58.3	109	117	44-164	7	13
1,2,4-Trimethylbenzene	ug/L	ND	50	50	54.2	53.9	108	108	44-161	0	9
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	51.5	49.3	103	99	58-124	4	15
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	49.7	49.6	99	99	71-134	0	12
1,2-Dichlorobenzene	ug/L	ND	50	50	54.9	56.4	110	113	69-135	3	10
1,2-Dichloroethane	ug/L	ND	50	50	49.3	48.0	99	96	36-159	3	10
1,2-Dichloropropane	ug/L	ND	50	50	51.0	54.3	102	109	68-132	6	11
1,3,5-Trimethylbenzene	ug/L	ND	50	50	55.4	57.1	111	114	62-149	3	12
1,3-Dichlorobenzene	ug/L	ND	50	50	55.5	55.6	111	111	68-135	0	10
1,4-Dichlorobenzene	ug/L	ND	50	50	51.3	51.9	103	104	49-153	1	9
2-Butanone (MEK)	ug/L	ND	100	100	95.0	75.9	95	76	10-189	22	23

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265838

Parameter	Units	36618		36619									
		MS		MSD		MS		MSD		MS		% Rec	
		265838001	Spike Result	Spike Conc.	Conc.	MSD Result	MSD	MS Result	% Rec	MSD % Rec	MSD % Rec	Limits	Max RPD RPD
2-Hexanone	ug/L	ND	100	100	90.7	84.2	91	84	40-135	7	18		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	92.3	95.9	92	96	30-177	4	10		
Acetone	ug/L	ND	100	100	68.4	65.7	65	63	44-223	4	14		
Benzene	ug/L	ND	50	50	55.5	55.0	111	110	66-139	1	10		
Bromodichloromethane	ug/L	ND	50	50	47.1	46.7	94	93	57-120	1	13		
Bromoform	ug/L	ND	50	50	45.8	44.3	92	89	48-128	3	13		
Bromomethane	ug/L	ND	50	50	44.2	50.3	88	101	10-187	13	32		
Carbon disulfide	ug/L	ND	100	100	106	108	106	108	47-141	2	322		
Carbon tetrachloride	ug/L	ND	50	50	63.2	64.3	126	129	58-127	2	14 M1		
Chlorobenzene	ug/L	ND	50	50	51.3	51.6	103	103	63-137	1	10		
Chloroethane	ug/L	ND	50	50	52.6	53.0	105	106	52-146	1	16		
Chloroform	ug/L	ND	50	50	55.1	54.8	110	110	74-137	1	9		
Chloromethane	ug/L	ND	50	50	52.2	57.2	104	114	41-127	9	10		
cis-1,2-Dichloroethene	ug/L	2.2	50	50	59.1	57.9	114	111	71-138	2	16		
cis-1,3-Dichloropropene	ug/L	ND	50	50	45.3	46.7	91	93	32-145	3	12		
Dibromochloromethane	ug/L	ND	50	50	45.4	45.4	91	91	52-116	0	13		
Dichlorodifluoromethane	ug/L	ND	50	50	64.3	63.5	129	127	36-126	1	15 M1		
Ethylbenzene	ug/L	ND	50	50	56.3	55.1	113	110	31-174	2	10		
Isopropylbenzene (Cumene)	ug/L	ND	50	50	51.5	51.5	103	103	56-139	0	12		
Methyl-tert-butyl ether	ug/L	ND	100	100	99.7	98.5	100	99	38-120	1	12		
Methylene Chloride	ug/L	ND	50	50	50.7	52.2	101	104	61-146	3	15		
Styrene	ug/L	ND	50	50	51.2	50.9	102	102	77-128	1	14		
Tetrachloroethene	ug/L	6.7	50	50	52.0	52.7	91	92	36-155	1	14		
Toluene	ug/L	ND	50	50	54.7	54.4	109	109	52-146	0	11		
trans-1,2-Dichloroethene	ug/L	ND	50	50	50.8	51.4	102	103	61-152	1	14		
trans-1,3-Dichloropropene	ug/L	ND	50	50	46.4	48.1	93	96	37-146	4	12		
Trichloroethene	ug/L	0.81J	50	50	52.3	52.9	103	104	61-141	1	12		
Trichlorofluoromethane	ug/L	2.3	50	50	75.0	71.4	145	138	51-141	5	13 M1		
Vinyl chloride	ug/L	ND	50	50	65.3	70.2	131	140	22-156	7	26		
Xylene (Total)	ug/L	ND	150	150	175	172	117	115	78-132	2	7		
1,2-Dichloroethane-d4 (S)	%.						101	97	81-119				
4-Bromofluorobenzene (S)	%.						101	98	82-120				
Dibromofluoromethane (S)	%.						109	102	82-114				
Toluene-d8 (S)	%.						101	101	82-109				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265838

QC Batch:	7931	Analysis Method:	EPA 8082A
QC Batch Method:	EPA 3546	Analysis Description:	8082 GCS PCB
Associated Lab Samples: 265838003, 265838004, 265838005, 265838006, 265838007, 265838008, 265838009, 265838010			

METHOD BLANK:	36798	Matrix:	Solid
Associated Lab Samples: 265838003, 265838004, 265838005, 265838006, 265838007, 265838008, 265838009, 265838010			

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	32.6	5.3	06/14/18 12:05	
PCB-1221 (Aroclor 1221)	ug/kg	ND	66.2	32.6	06/14/18 12:05	
PCB-1232 (Aroclor 1232)	ug/kg	ND	32.6	32.6	06/14/18 12:05	
PCB-1242 (Aroclor 1242)	ug/kg	ND	32.6	32.6	06/14/18 12:05	
PCB-1248 (Aroclor 1248)	ug/kg	ND	32.6	32.6	06/14/18 12:05	
PCB-1254 (Aroclor 1254)	ug/kg	ND	32.6	32.6	06/14/18 12:05	
PCB-1260 (Aroclor 1260)	ug/kg	ND	32.6	4.0	06/14/18 12:05	
Decachlorobiphenyl (S)	%.	83	12-139		06/14/18 12:05	

LABORATORY CONTROL SAMPLE:	36799						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers	
PCB-1016 (Aroclor 1016)	ug/kg	166	150	90	50-120		
PCB-1260 (Aroclor 1260)	ug/kg	166	142	86	64-121		
Decachlorobiphenyl (S)	%.			84	12-139		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	36800			36801							
Parameter	Units	265838003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD
PCB-1016 (Aroclor 1016)	ug/kg	ND	219	219	145J	139J	67	64	39-120	19	
PCB-1260 (Aroclor 1260)	ug/kg	ND	219	219	157J	153J	72	70	24-144		35
Decachlorobiphenyl (S)	%.						37	30	12-139		

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876

Pace Project No.: 265838

QC Batch:	7928	Analysis Method:	EPA 8082A
QC Batch Method:	EPA 3510C	Analysis Description:	8082 GCS PCB
Associated Lab Samples:			265838001, 265838002

METHOD BLANK: 36791 Matrix: Water

Associated Lab Samples: 265838001, 265838002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.50	0.34	06/14/18 12:19	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.50	0.50	06/14/18 12:19	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.50	0.50	06/14/18 12:19	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.50	0.50	06/14/18 12:19	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.50	0.50	06/14/18 12:19	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.50	0.50	06/14/18 12:19	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.50	0.24	06/14/18 12:19	
Decachlorobiphenyl (S)	%.	56	17-144		06/14/18 12:19	

LABORATORY CONTROL SAMPLE: 36792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	3.9	78	47-120	
PCB-1260 (Aroclor 1260)	ug/L	5	4.0	80	51-126	
Decachlorobiphenyl (S)	%.			63	17-144	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 36841 36842

Parameter	Units	MS 265835013		MSD Spike Conc.		MS 265835013		MSD Spike Conc.		MS 265835013		MSD Spike Conc.		% Rec Limits	RPD	RPD	Max Qual
		Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.				
PCB-1016 (Aroclor 1016)	ug/L	ND	5	5	4.6	3.8	92	76	10-183	19	18	R1					
PCB-1260 (Aroclor 1260)	ug/L	ND	5	5	4.5	3.8	90	75	19-141	18	27						
Decachlorobiphenyl (S)	%.						65	45	17-144								

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876
Pace Project No.: 265838

QC Batch:	7646	Analysis Method:	Pace SOP #204
QC Batch Method:	Pace SOP #204	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples: 265838003, 265838004, 265838005, 265838006, 265838007, 265838008, 265838009, 265838010			

SAMPLE DUPLICATE: 35847

Parameter	Units	265838003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	24.1	22.1	8	10	

SAMPLE DUPLICATE: 35848

Parameter	Units	265854002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.3	25.2	1	10	

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QUALIFIERS

Project: Southland Circle Site - 018876
Pace Project No.: 265838

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Southland Circle Site - 018876

Pace Project No.: 265838

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
265838003	SED-018876-060718-SAG-301	EPA 3546	7931	EPA 8082A	7995
265838004	SED-018876-060718-SAG-302	EPA 3546	7931	EPA 8082A	7995
265838005	SO-018876-060718-SAG-401	EPA 3546	7931	EPA 8082A	7995
265838006	SO-018876-060718-SAG-402	EPA 3546	7931	EPA 8082A	7995
265838007	SO-018876-060718-SAG-403	EPA 3546	7931	EPA 8082A	7995
265838008	SO-018876-060718-SAG-404	EPA 3546	7931	EPA 8082A	7995
265838009	SO-018876-060718-SAG-405	EPA 3546	7931	EPA 8082A	7995
265838010	SO-018876-060718-SAG-406	EPA 3546	7931	EPA 8082A	7995
265838001	SW-018876-060718-SAG-201	EPA 3510C	7928	EPA 8082A	8011
265838002	SW-018876-060718-SAG-202	EPA 3510C	7928	EPA 8082A	8011
265838003	SED-018876-060718-SAG-301	EPA 5035	7878	EPA 8260B	7888
265838004	SED-018876-060718-SAG-302	EPA 5035	7878	EPA 8260B	7888
265838001	SW-018876-060718-SAG-201	EPA 8260B	7892		
265838002	SW-018876-060718-SAG-202	EPA 8260B	7892		
265838011	Trip Blank	EPA 8260B	7892		
265838003	SED-018876-060718-SAG-301	Pace SOP #204	7646		
265838004	SED-018876-060718-SAG-302	Pace SOP #204	7646		
265838005	SO-018876-060718-SAG-401	Pace SOP #204	7646		
265838006	SO-018876-060718-SAG-402	Pace SOP #204	7646		
265838007	SO-018876-060718-SAG-403	Pace SOP #204	7646		
265838008	SO-018876-060718-SAG-404	Pace SOP #204	7646		
265838009	SO-018876-060718-SAG-405	Pace SOP #204	7646		
265838010	SO-018876-060718-SAG-406	Pace SOP #204	7646		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: GHD
Address: 3075 Breckinridge Blvd, Suite 470
Duluth, GA 30096
Email: terefe.mazengia@qhd.com
Phone: 678-280-2140

Required Project Information:

Report To: Terefe Mazengia
Copy To: Paul McNamee
Purchase Order #: Project Name: Southland Circle Site - 018876
Project #: Project #: 1483

Section C

Invoice Information:

Attention: Julie Wisniewski
Company Name: GHD
Address:
Pace Quote:
Pace Project Manager: betary.mazengia@paceclabs.com.
Pace Profile #: 1483

Residual Chlorine (Y/N)

SAMPLE ID	One Character per box. (A-Z, 0-9, -) Sample IDs must be unique	ITEM #	SAMPLE TEMP AT COLLECTION			COLLECTED			Preservatives			ANALYSTS TEST			REQUESTED ANALYSIS FILTERED (Y/N)		
			MATRIX CODE (see workflow codes to left)	SAMPLE TYPE (G=GRAIN C=COMP)	TIME	TIME	TIME	TIME	TIME	TIME	TIME	TIME	TIME	TIME	TIME	TIME	
									Dilute	PCBs by 8082	VOC 8260 by 1668	Pace Project Manager: betary.mazengia@paceclabs.com.	Pace Profile #: 1483	Pace / Location: GA	Pace / Location: GA	Pace / Location: GA	Pace / Location: GA
1	S1W - 018876 - 060718 - SAG - 201	5W	G	07/18	07/18	7	X	X	X	X	X	X	X	X	X	X	X
2	S1W - 018876 - 060718 - SAG - 202	5W	G	1	1035	7	X	X	X	X	X	X	X	X	X	X	X
3	S1D - 018876 - 060718 - SAG - 301	5D	G	840	840	8	X	X	X	X	X	X	X	X	X	X	X
4	S1D - 018876 - 060718 - SAG - 302	5D	G	1045	1045	9	X	X	X	X	X	X	X	X	X	X	X
5	5D - 018876 - 060718 - SAG - 401	5W	G	900	900	2	X	X	X	X	X	X	X	X	X	X	X
6	5D - 018876 - 060718 - SAG - 402	5W	G	915	915	1	X	X	X	X	X	X	X	X	X	X	X
7	5D - 018876 - 060718 - SAG - 403	5W	G	910	910	1	X	X	X	X	X	X	X	X	X	X	X
8	5D - 018876 - 060718 - SAG - 404	5W	G	910	910	2	X	X	X	X	X	X	X	X	X	X	X
9	5D - 018876 - 060718 - SAG - 405	5W	G	915	915	1	X	X	X	X	X	X	X	X	X	X	X
10	5D - 018876 - 060718 - SAG - 406	5W	G	1000	1000	2	X	X	X	X	X	X	X	X	X	X	X
11	Trip Blank					3	X	X	X	X	X	X	X	X	X	X	X
12																	

ADDITIONAL COMMENTS:	Established by / Affiliation:	DATE:	TIME:	Accepted by / Affiliation:	DATE:	TIME:	TIME:	TIME:	TIME:	TIME:	TIME:	TIME:	TIME:	TIME:	TIME:	TIME:	TIME:
Stephanie Lindo/GHD 6/7/18 12:15																	
M. Dalmann 6/7/18 1:15																	
SAMPLE NAME AND SIGNATURE:		PRINT Name of Sampler:		SIGNATURE of Sampler:		PRINT Name of Sampler:		SIGNATURE of Sampler:		PRINT Name of Sampler:		SIGNATURE of Sampler:		PRINT Name of Sampler:		SIGNATURE of Sampler:	
Stephanie Lindo/GHD		6/7/18		M. Dalmann		6/7/18		1:15		6/7/18		1:15		6/7/18		1:15	
Date Signed: 6/7/18																	
TEMP in C	6.6	Received on	09/09	Custody Sample (Y/N)	Customer Sample (Y/N)	Sealed (Y/N)	Sealed (Y/N)	Sealed (Y/N)	Sealed (Y/N)	Sealed (Y/N)	Sealed (Y/N)	Sealed (Y/N)	Sealed (Y/N)	Sealed (Y/N)	Sealed (Y/N)	Sealed (Y/N)	



Sample Condition Upon Receipt

Client Name: <u>GHD</u>		Project # <u>WO# : 265838</u>																																																																																																														
Courier: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input checked="" type="checkbox"/> Client Tracking #: _____		Commercial <input type="checkbox"/> Pace Other PM: BM Due Date: 06/14/18 CLIENT: GHD																																																																																																														
Custody Seal on Cooler/Box Present: <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Seals intact: <input checked="" type="checkbox"/> yes																																																																																																																
Packing Material: <input type="checkbox"/> Bubble Wrap <input checked="" type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other																																																																																																																
Thermometer Used <u>83</u>		Type of Ice: <u>Wet</u> Blue None	<input type="checkbox"/> Samples on ice, cooling process has begun																																																																																																													
Cooler Temperature <u>36</u> Temp should be above freezing to 6°C		Biological Tissue is Frozen: Yes No	Date and Initials of person examining contents: <u>GHD 18 MZ</u>																																																																																																													
Comments:																																																																																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Chain of Custody Present:</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>1.</td> </tr> <tr> <td>Chain of Custody Filled Out:</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>2.</td> </tr> <tr> <td>Chain of Custody Relinquished:</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>3.</td> </tr> <tr> <td>Sampler Name & Signature on COC:</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>4.</td> </tr> <tr> <td>Samples Arrived within Hold Time:</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>5.</td> </tr> <tr> <td>Short Hold Time Analysis (<72hr):</td> <td><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>6.</td> </tr> <tr> <td>Rush Turn Around Time Requested:</td> <td><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>7.</td> </tr> <tr> <td>Sufficient Volume:</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>8.</td> </tr> <tr> <td>Correct Containers Used:</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>9.</td> </tr> <tr> <td>-Pace Containers Used:</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td></td> </tr> <tr> <td>Containers Intact:</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>10.</td> </tr> <tr> <td>Filtered volume received for Dissolved tests</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>11.</td> </tr> <tr> <td>Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>12.</td> </tr> <tr> <td>All containers needing preservation have been checked:</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A</td> <td>13.</td> </tr> <tr> <td>All containers needing preservation are found to be in compliance with EPA recommendation.</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td></td> </tr> <tr> <td>exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> <td>Initial when completed</td> <td>Lot # of added preservative</td> </tr> <tr> <td>Samples checked for dechlorination:</td> <td><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>14.</td> <td></td> </tr> <tr> <td>Headspace in VOA Vials (>6mm):</td> <td><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>15.</td> <td></td> </tr> <tr> <td>Trip Blank Present:</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td>16.</td> <td></td> </tr> <tr> <td>Trip Blank Custody Seals Present</td> <td><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</td> <td></td> <td></td> </tr> <tr> <td>Pace Trip Blank Lot # (if purchased):</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Client Notification/ Resolution:</td> <td colspan="2">Field Data Required? Y / N</td> </tr> <tr> <td colspan="2">Person Contacted: _____ Date/Time: _____</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Comments/ Resolution:</td> <td colspan="2"></td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Project Manager Review: _____</td> <td colspan="2">Date: _____</td> </tr> <tr> <td colspan="2"> Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers) </td> <td colspan="2"></td> </tr> <tr> <td colspan="4" style="text-align: right;">Page 35 of 35 F-ALLC003rev.3. 11 September 2006</td> </tr> </table>				Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	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Page 35 of 35 F-ALLC003rev.3. 11 September 2006																																																																																																																

July 03, 2018

Terefe Mazengia
GHD
3075 Breckinridge Blvd
Suite 470
Duluth, GA 30096

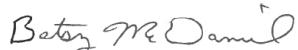
RE: Project: Southland Circle Site - 018876
Pace Project No.: 265840

Dear Terefe Mazengia:

Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Paul McMahon, GHD
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Southland Circle Site - 018876
 Pace Project No.: 265840

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
 A2LA Certification #: 2926.01
 Alabama Certification #: 40770
 Alaska Contaminated Sites Certification #: 17-009
 Alaska DW Certification #: MN00064
 Arizona Certification #: AZ0014
 Arkansas Certification #: 88-0680
 California Certification #: 2929
 CNMI Saipan Certification #: MP0003
 Colorado Certification #: MN00064
 Connecticut Certification #: PH-0256
 EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
 Florida Certification #: E87605
 Georgia Certification #: 959
 Guam EPA Certification #: MN00064
 Hawaii Certification #: MN00064
 Idaho Certification #: MN00064
 Illinois Certification #: 200011
 Indiana Certification #: C-MN-01
 Iowa Certification #: 368
 Kansas Certification #: E-10167
 Kentucky DW Certification #: 90062
 Kentucky WW Certification #: 90062
 Louisiana DEQ Certification #: 03086
 Louisiana DW Certification #: MN00064
 Maine Certification #: MN00064
 Maryland Certification #: 322
 Massachusetts Certification #: M-MN064

Michigan Certification #: 9909
 Minnesota Certification #: 027-053-137
 Mississippi Certification #: MN00064
 Montana Certification #: CERT0092
 Nebraska Certification #: NE-OS-18-06
 Nevada Certification #: MN00064
 New Hampshire Certification #: 2081
 New Jersey Certification #: MN002
 New York Certification #: 11647
 North Carolina DW Certification #: 27700
 North Carolina WW Certification #: 530
 North Dakota Certification #: R-036
 Ohio DW Certification #: 41244
 Ohio VAP Certification #: CL101
 Oklahoma Certification #: 9507
 Oregon NwTPH Certification #: MN300001
 Oregon Secondary Certification #: MN200001
 Pennsylvania Certification #: 68-00563
 Puerto Rico Certification #: MN00064
 South Carolina Certification #: 74003001
 Tennessee Certification #: TN02818
 Texas Certification #: T104704192
 Utah Certification #: MN00064
 Virginia Certification #: 460163
 Washington Certification #: C486
 West Virginia DW Certification #: 9952 C
 West Virginia DEP Certification #: 382
 Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Southland Circle Site - 018876
 Pace Project No.: 265840

Lab ID	Sample ID	Matrix	Date Collected	Date Received
265840001	SW-018876-060718-SAG-201	Water	06/07/18 08:30	06/07/18 12:15
265840002	SW-018876-060718-SAG-202	Water	06/07/18 10:35	06/07/18 12:15
265840003	SED-018876-060718-SAG-301	Solid	06/07/18 08:40	06/07/18 12:15
265840004	SED-018876-060718-SAG-302	Solid	06/07/18 10:45	06/07/18 12:15
265840005	SO-018876-060718-SAG-401	Solid	06/07/18 09:00	06/07/18 12:15
265840006	SO-018876-060718-SAG-404	Solid	06/07/18 09:40	06/07/18 12:15
265840007	SO-018876-060718-SAG-406	Solid	06/07/18 10:00	06/07/18 12:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Southland Circle Site - 018876
 Pace Project No.: 265840

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
265840003	SED-018876-060718-SAG-301	ASTM D2974	JDL	1	PASI-M
265840004	SED-018876-060718-SAG-302	ASTM D2974	JDL	1	PASI-M
265840005	SO-018876-060718-SAG-401	ASTM D2974	JDL	1	PASI-M
265840006	SO-018876-060718-SAG-404	ASTM D2974	JDL	1	PASI-M
265840007	SO-018876-060718-SAG-406	ASTM D2974	JDL	1	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
 Pace Project No.: 265840

Sample: SED-018876-060718-SAG-301 Lab ID: 265840003 Collected: 06/07/18 08:40 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974								
Percent Moisture	26.1	%	0.10	0.10	1			06/26/18 14:47	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265840

Sample: SED-018876-060718-SAG- Lab ID: 265840004 Collected: 06/07/18 10:45 Received: 06/07/18 12:15 Matrix: Solid
302

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit						
Dry Weight / %M by ASTM D2974			Analytical Method: ASTM D2974						
Percent Moisture	33.5	%		0.10	0.10	1		06/26/18 14:49	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
 Pace Project No.: 265840

Sample: SO-018876-060718-SAG-401 Lab ID: 265840005 Collected: 06/07/18 09:00 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit						
Dry Weight / %M by ASTM D2974			Analytical Method: ASTM D2974						
Percent Moisture	48.3	%		0.10	0.10	1		06/26/18 14:49	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
Pace Project No.: 265840

Sample: SO-018876-060718-SAG-404 Lab ID: 265840006 Collected: 06/07/18 09:40 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit						
Dry Weight / %M by ASTM D2974			Analytical Method: ASTM D2974						
Percent Moisture	29.3	%		0.10	0.10	1		06/26/18 14:49	

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ANALYTICAL RESULTS

Project: Southland Circle Site - 018876
 Pace Project No.: 265840

Sample: SO-018876-060718-SAG-406 Lab ID: 265840007 Collected: 06/07/18 10:00 Received: 06/07/18 12:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report	MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit						
Dry Weight / %M by ASTM D2974			Analytical Method: ASTM D2974						
Percent Moisture	38.6	%		0.10	0.10	1		06/26/18 14:49	

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QUALITY CONTROL DATA

Project: Southland Circle Site - 018876
 Pace Project No.: 265840

QC Batch:	547083	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
Associated Lab Samples: 265840003, 265840004, 265840005, 265840006, 265840007			

SAMPLE DUPLICATE: 2974341

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.1	25.2	3	30	

SAMPLE DUPLICATE: 2974342

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.8	22.4	12	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Southland Circle Site - 018876
Pace Project No.: 265840

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Southland Circle Site - 018876
 Pace Project No.: 265840

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
265840003	SED-018876-060718-SAG-301	ASTM D2974	547083		
265840004	SED-018876-060718-SAG-302	ASTM D2974	547083		
265840005	SO-018876-060718-SAG-401	ASTM D2974	547083		
265840006	SO-018876-060718-SAG-404	ASTM D2974	547083		
265840007	SO-018876-060718-SAG-406	ASTM D2974	547083		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Sample Condition Upon Receipt

Client Name: GHD

Project #

Courier: FedEx UPS USPS Client
 Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83Type of Ice: Wet Blue NoneCooler Temperature 3.6

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

 Samples on ice, cooling process has begunDate and Initials of person examining contents: G718 MR

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A		11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A		12.
All containers needing preservation have been checked:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A		13.
All containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
exceptions: <u>VOA, coliform, TOC, O&G, WI-DRO (water)</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A		14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):					

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Field Data Required?

Y N

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office i.e. out of hold, incorrect preservative, out of temp, incorrect containers

Report Prepared for:

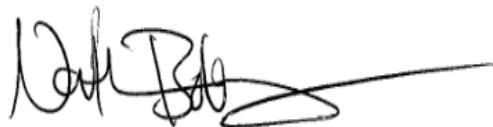
Eben Buchanan
PASI-Georgia
110 Technology Parkway
Peachtree Corners GA 30092

**REPORT OF
LABORATORY
ANALYSIS
FOR PCBs**

Report Information:

Pace Project #: 10434900
Sample Receipt Date: 06/08/2018
Client Project #: 265840 GHD
Client Sub PO #: N/A
State Cert #: N/A

This report has been reviewed by:



July 02, 2018
Nathan Boberg, Project Manager
(612) 607-6444 (fax)
nathan.boberg@pacelabs.com



Report Prepared Date:

July 2, 2018

Report No.....10434900_TB_DFR

Report of Laboratory Analysis

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The results relate only to the samples included in this report.

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DISCUSSION

This report provides results for seven samples that were spiked with the Method 1668 internal standards and extracted. The extracts were then processed through cleanup procedures and analyzed as a screening determination for PCB content. All of the internal standard recoveries were within the ranges expected for this method. Since the method uses internal standard and isotope dilution procedures, the results have a built in correction for recovery and accurate results are expected. The method blanks contained low levels of selected DiCB or TetraCB congeners within the reporting range. Water sample SW-018876-060718-SAG-201 levels for the Di-CBs were similar to the levels determined in the method blank and may have originated, at least partially, in the laboratory. The lab spike recoveries were within the target range for this method.

REPORT OF LABORATORY ANALYSIS

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Chain of Custody

Samples were sent directly to the Subcontracting Laboratory

State Of Origin:

GA

Workorder: 265840 Workorder Name: Southland Circle Site - 018876

Report To: Subcontractor

Betsy McDaniels
Pace Analytical Atlanta
110 Technology Parkway
Peachtree Corners, GA 30092
Phone (770)734-4200

Owner Received Date: 6/7/2018

Results Requested By: 6/28/2018

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved		PCB Homologs	Comments
						Preserved	LAB USE ONLY		
1	SW-018876-060718-SAG-201	PS	6/7/2018 08:30	265840001	Water	1	X		265838 001
2	SW-018876-060718-SAG-202	PS	6/7/2018 10:35	265840002	Water	1	X		002
3	SED-018876-060718-SAG-301	PS	6/7/2018 08:40	265840003	Solid	1	X		003
4	SED-018876-060718-SAG-302	PS	6/7/2018 10:45	265840004	Solid	1	X		004
5	SO-018876-060718-SAG-401	PS	6/7/2018 09:00	265840005	Solid	1	X		005
6	SO-018876-060718-SAG-404	PS	6/7/2018 09:40	265840006	Solid	1	X		006
7	SO-018876-060718-SAG-406	PS	6/7/2018 10:00	265840007	Solid	1	X		007

Transfers	Released By	Date/Time	Received By	Date/Time	
				Received on Ice Y or N	Samples Intact Y or N
1	Mike Nathan	6/7/18	Amber Phoebe	6/8/18 9:30	
2					
3					

Cooler Temperature on Receipt 41.0 °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 02May2018 Page 1 of 2
	Document No.: F-MN-L-213-rev.23	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt	Client Name: <i>Pace Atlanta</i>	Project #: WO# . 10434900
Courier:	<input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client	PM: NB3 Due Date: 06/28/18
<input type="checkbox"/> Commercial	<input type="checkbox"/> Pace <input type="checkbox"/> SpeeDee <input type="checkbox"/> Other: _____	CLIENT: POST-60
Tracking Number:	741366643342, 741366643353	
Custody Seal on Cooler/Box Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Seals Intact? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Optional: Proj. Due Date: _____ Proj. Name: _____
Packing Material:	<input type="checkbox"/> Bubble Wrap <input checked="" type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other: _____	Temp Blank? <input type="checkbox"/> Yes <input type="checkbox"/> No
Thermometer Used:	G87A9170600254 G87A9155100842	Type of Ice: <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> None <input type="checkbox"/> Dry <input type="checkbox"/> Melted
Cooler Temp Read (°C): <u>M.4, 3.0</u>	Cooler Temp Corrected (°C): <u>4.9, 3.0</u>	Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Temp should be above freezing to 6°C	Correction Factor: <u>true</u>	Date and Initials of Person Examining Contents: <u>10/11/18</u>
USDA Regulated Soil (check N/A, water sample)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.		
		COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? Matrix: <u>SL</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: *Nathan Robberg*

Date: 6/12/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

	Document Name: Regulated Soil Checklist	Document Revised: 13Feb2018 Page 1 of 2
Document No.: F-MN-Q-338-Rev.06		Issuing Authority: Pace Minnesota Quality Office

USDA REGULATED SOIL CHECKLIST

To Be Completed by SR Staff:

WO: 10434900

Date: 6/11/18

Initials: KAC

Sample Origin (circle one):

DOMESTIC

QUARANTINED

FOREIGN

(Note: soil samples from Hawaii, Guam, Puerto Rico and the US Virgin Islands are considered to be of a Foreign Source)

If Domestic, circle State of Origin: AL AR CA FL GA IA MS NC NM NY OK OR SC TN TX VA

(Includes: IFA, SOD, Golden Nematode, Karnal Bunt and Witchweed)

List County: Gwinnett County

(USDA Permit/Compliance Agreement authorizes movement of samples from these domestic regulated zones)

If Quarantined, circle State of Origin: FL ID TX CA

List County: _____

(Includes Fruit Fly, Giant African Snail and Pale Cyst Nematode)

(Movement is not authorized for Pale Cyst Nematode [ID or Giant African Snail [FL], remaining quarantines require additional paperwork)

If Foreign, list Country of Origin:

(Movement from some Canadian Provinces is not allowed. Refer to CS-232 Regulated Soil Flow Chart)

REQUIREMENT	ACTION	COMPLETED
PPQ-530 Paperwork must be included for any samples from counties with a Fruit Fly	Scan PPQ-530 to the corresponding Project folder on the x drive.	YES NO <input checked="" type="radio"/> N/A
Quarantine in TX. Refer to MN-S063 through MN-S065	If PPQ-530 is not present, contact the Waste Coordinator and do not continue processing samples.	YES NO <input checked="" type="radio"/> N/A
Samples from ID may not be moved from the quarantined region. Refer to MN-S055	If samples originated in a quarantined zone, contact the Waste Coordinator and do not continue processing samples.	YES NO <input checked="" type="radio"/> N/A
Samples from Giant African Snail Quarantine in FL may not be moved from the quarantined region. Refer to MN-S068	If samples originated in a quarantined zone, contact the Waste Coordinator and do not continue processing samples.	YES NO <input checked="" type="radio"/> N/A

REQUIREMENT	ACTION	COMPLETED
"Special Handling" stickers are to be placed on all samples.	Did "special handling" stickers get placed on all sample containers?	<input checked="" type="radio"/> YES NO
Samples must be segregated and stored in designated bins, shelves and coolers.	Were samples placed in a designated cooler, containers and shelves?	<input checked="" type="radio"/> YES NO
Samples must be double contained to prevent accidental release.	Were there any signs of breakage or leakage (check for broken glass and/or loose soil in the cooler)? <i>If NO, ice and melt water can be disposed of by normal process (down the drain).</i> If YES, were ice and melt water separated from the cooler and disposed of properly? Any broken glass and/or loose soil are to be bagged and placed in a USDA Regulated satellite container or active drum (see Waste Coordinator). Ice and melt water should be baked at a temperature range of 121-154°F for 2 hours and then cooled before going down the drain.	YES NO <input checked="" type="radio"/> N/A
Equipment and supplies that have come into contact with samples must be decontaminated.	Was the cooler(s) and/or countertop(s) decontaminated using either a fresh 10% bleach solution or 70% ethanol? (Gloves and other lab supplies will be bagged and placed in the USDA Regulated satellite container or active drum).	<input checked="" type="radio"/> YES NO

Comments: _____

	Document Name: Regulated Soil Checklist	Document Revised: 13Feb2018 Page 2 of 2
Document No.: F-MN-Q-338-Rev.06		Issuing Authority: Pace Minnesota Quality Office

To Be Completed by PM and/or PC:

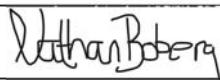
Sample Analysis to be conducted (circle all that apply): MN Subcontract Lab

Name of Subcontract Lab (s): _____

REQUIREMENT	ACTION	COMPLETED
Permission to ship untreated soil must be on file prior to shipping to any subcontract lab, including IR Pace Labs.	Go to: J:\SHARE\PRJ_MGR\10_Client Services Department Documents\Regulated Soils Permits – if permission to ship letter is not there, contact the Waste Coordinator.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO N/A
Shipment must include a valid copy of the receiving lab's permit as well as permission to ship letter.	Is a copy of all needed paperwork included with the COC? Do NOT ship samples until all necessary paperwork is compiled.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO N/A

Comments: _____

Project Manager Signature: _____



Date: 6/12/18

Sample Receipt Form

Pace Analytical Services, LLC
Minnesota



Login Summary

Workorder: 10434900
Report Version: C
Min Sample Due: 06/28/2018 17:00
Max Sample Due: 06/28/2018 17:00

Client Work ID: 265840 GHD
Client: PASI-Georgia
Profile: 36743
Profile Desc: All Dioxin

Lab ID	Sample ID	Collected	Received	Report			Due Date
				Matrix	Properties	Location	
265840001	SW-018876-060718-SAG-201	06/07/18 08:30	06/08/18 09:30	WT	J2F	GA	06/28/18
265840002	SW-018876-060718-SAG-202	06/07/18 10:35	06/08/18 09:30	WT	J2F	GA	06/28/18
265840003	SED-018876-060718-SAG-301	06/07/18 08:40	06/08/18 09:30	SL	J2F	GA	06/28/18
265840004	SED-018876-060718-SAG-302	06/07/18 10:45	06/08/18 09:30	SL	J2F	GA	06/28/18
265840005	SO-018876-060718-SAG-401	06/07/18 09:00	06/08/18 09:30	SL	J2F	GA	06/28/18
265840006	SO-018876-060718-SAG-404	06/07/18 09:40	06/08/18 09:30	SL	J2F	GA	06/28/18
265840007	SO-018876-060718-SAG-406	06/07/18 10:00	06/08/18 09:30	SL	J2F	GA	06/28/18

Section 1

Quality Control (QC) Summary



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

**PCB Congener Screening Analysis Results
LCS Analysis Results**

Lab Sample ID	LCS-62989	Matrix	Water
Filename	Y180624A_04	Dilution	NA
Injected By	BAL	Extracted	NA
Total Amount Extracted	1040 mL	Analyzed	06/24/2018 13:45
ICAL ID	Y180624A03		

Congener Group	Spiked ng	Found ng	Recovery %
Total MoCB	2.0	1.77	88
Total DiCB	2.0	1.67	83
Total TrCB	2.0	1.37	68
Total TeCB	3.0	3.22	107
Total PeCB	6.0	6.38	106
Total HxCB	5.0	4.98	100
Total HpCB	2.0	2.34	117
Total OcCB	2.0	2.06	103
Total NoCB	2.0	1.67	84
DeCB	2.0	2.48	124

ND = Not Detected

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Lab Sample ID LCS-62989
Filename Y180624A_04

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.382	2.0	0.920	46
13C-4-MoCB	3	6.472	2.0	0.992	50
13C-2,2'-DiCB	4	6.925	2.0	1.10	55
13C-4,4'-DiCB	15	9.572	2.0	1.13	57
13C-2,2',6-TrCB	19	8.652	2.0	1.23	62
13C-3,4,4'-TrCB	37	12.644	2.0	1.52	76
13C-2,2',6,6'-TeCB	54	10.280	2.0	1.12	56
13C-3,4,4',5-TeCB	81	15.331	2.0	1.39	69
13C-3,3',4,4'-TeCB	77	15.634	2.0	1.38	69
13C-2,2',4,6,6'-PeCB	104	12.219	2.0	1.44	72
13C-2,3',4,4',5'-PeCB	123	16.239	2.0	1.67	83
13C-2,3',4,4',5-PeCB	118	16.356	2.0	1.69	85
13C-2,3,4,4',5-PeCB	114	16.642	2.0	1.63	82
13C-2,3,3',4,4'-PeCB	105	17.096	2.0	1.58	79
13C-3,3',4,4',5-PeCB	126	18.138	2.0	1.66	83
13C-2,2',4,4',6,6'-HxCB	155	14.104	2.0	1.36	68
13C-2,3',4,4',5,5'-HxCB	167	18.659	2.0	1.52	76
13C-2,3,3',4,4',5-HxCB	156	19.281	2.0	1.55	78
13C-2,3,3',4,4',5'-HxCB	157	19.416	2.0	1.63	81
13C-3,3',4,4',5,5'-HxCB	169	20.441	2.0	1.55	78
13C-2,2',3,4',5,6,6'-HpCB	188	16.659	2.0	1.63	82
13C-2,3,3',4,4',5,5'-HpCB	189	21.443	2.0	1.51	75
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.080	2.0	1.84	92
13C-2,3,3',4,4',5,5',6-Occb	205	22.486	2.0	1.60	80
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	21.674	2.0	1.68	84
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.332	2.0	1.69	84
13C--DeCB	209	24.144	2.0	1.76	88
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.818	2.0	1.80	90
13C-2,3,3',5,5'-PeCB	111	15.230	2.0	1.62	81
13C-2,2',3,3',5,5',6-HpCB	178	17.936	2.0	1.48	74
Recovery Standards					
13C-2,5-DiCB	9	7.675	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.457	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.768	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.370	2.0	NA	NA

NA = Not Applicable

ND = Not Detected

RT = Retention Time

ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

**PCB Congener Screening Analysis Results
LCS Analysis Results**

Lab Sample ID	LCS-62889	Matrix	Solid
Filename	Y180624A_06	Dilution	NA
Injected By	BAL	Extracted	NA
Total Amount Extracted	25.2 g	Analyzed	06/24/2018 14:42
ICAL ID	Y180624A03		

Congener Group	Spiked ng	Found ng	Recovery %
Total MoCB	2.0	1.65	82
Total DiCB	2.0	1.44	72
Total TrCB	2.0	1.13	56
Total TeCB	3.0	3.09	103
Total PeCB	6.0	6.05	101
Total HxCB	5.0	4.74	95
Total HpCB	2.0	2.07	104
Total OcCB	2.0	2.18	109
Total NoCB	2.0	1.70	85
DeCB	2.0	2.78	139

ND = Not Detected

Results reported on a total weight basis

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Lab Sample ID LCS-62889
Filename Y180624A_06

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.326	2.0	1.01	50
13C-4-MoCB	3	6.458	2.0	1.08	54
13C-2,2'-DiCB	4	6.953	2.0	0.815	41
13C-4,4'-DiCB	15	9.643	2.0	1.33	67
13C-2,2',6-TrCB	19	8.680	2.0	1.62	81
13C-3,4,4'-TrCB	37	12.658	2.0	1.72	86
13C-2,2',6,6'-TeCB	54	10.294	2.0	1.28	64
13C-3,4,4',5-TeCB	81	15.314	2.0	1.04	52
13C-3,3',4,4'-TeCB	77	15.634	2.0	1.30	65
13C-2,2',4,6,6'-PeCB	104	12.233	2.0	1.34	67
13C-2,3',4,4',5'-PeCB	123	16.239	2.0	1.32	66
13C-2,3',4,4',5-PeCB	118	16.356	2.0	1.33	67
13C-2,3,4,4',5-PeCB	114	16.642	2.0	1.31	65
13C-2,3,3',4,4'-PeCB	105	17.096	2.0	1.34	67
13C-3,3',4,4',5-PeCB	126	18.138	2.0	1.34	67
13C-2,2',4,4',6,6'-HxCB	155	14.104	2.0	1.29	64
13C-2,3',4,4',5,5'-HxCB	167	18.642	2.0	1.26	63
13C-2,3,3',4,4',5-HxCB	156	19.298	2.0	1.17	58
13C-2,3,3',4,4',5'-HxCB	157	19.416	2.0	1.24	62
13C-3,3',4,4',5,5'-HxCB	169	20.441	2.0	1.13	57
13C-2,2',3,4',5,6,6'-HpCB	188	16.659	2.0	1.39	69
13C-2,3,3',4,4',5,5'-HpCB	189	21.431	2.0	1.24	62
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.063	2.0	1.13	56
13C-2,3,3',4,4',5,5',6-Occb	205	22.486	2.0	1.29	65
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	21.663	2.0	1.35	68
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.332	2.0	1.41	71
13C--DeCB	209	24.144	2.0	1.35	68
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.832	2.0	1.43	71
13C-2,3,3',5,5'-PeCB	111	15.213	2.0	1.28	64
13C-2,2',3,3',5,5',6-HpCB	178	17.936	2.0	1.19	60
Recovery Standards					
13C-2,5-DiCB	9	7.746	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.457	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.768	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.358	2.0	NA	NA

NA = Not Applicable

ND = Not Detected

RT = Retention Time

ng's = Nanograms

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

**PCB Congener Screening Analysis Results
Blank Analysis Results**

Lab Sample ID	BLANK-62888	Matrix	Solid
Filename	Y180624A_09	Dilution	NA
Injected By	BAL	Extracted	NA
Total Amount Extracted	25.1 g	Analyzed	06/24/2018 16:11
ICAL ID	Y180624A03		

Congener Group	Concentration ng/Kg	Reporting Limit ng/Kg
Total MoCB	ND	9.96
Total DiCB	ND	9.96
Total TrCB	ND	9.96
Total TeCB	14.6	9.96
Total PeCB	ND	9.96
Total HxCB	ND	9.96
Total HpCB	ND	9.96
Total OcCB	ND	9.96
Total NoCB	ND	9.96
DeCB	ND	9.96
Total PCBs	14.6	

ND = Not Detected

Results reported on a total weight basis

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Tel: 612-607-1700
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PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Lab Sample ID: BLANK-62888
Filename: Y180624A_09

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.354	2.0	1.14	57
13C-4-MoCB	3	6.472	2.0	1.12	56
13C-2,2'-DiCB	4	6.967	2.0	0.826	41
13C-4,4'-DiCB	15	9.713	2.0	1.18	59
13C-2,2',6-TrCB	19	8.694	2.0	3.55	178
13C-3,4,4'-TrCB	37	12.672	2.0	1.27	63
13C-2,2',6,6'-TeCB	54	10.336	2.0	1.42	71
13C-3,4,4',5-TeCB	81	15.347	2.0	1.28	64
13C-3,3',4,4'-TeCB	77	15.649	2.0	1.21	61
13C-2,2',4,6,6'-PeCB	104	12.247	2.0	1.31	65
13C-2,3',4,4',5'-PeCB	123	16.271	2.0	1.15	57
13C-2,3',4,4',5-PeCB	118	16.372	2.0	1.15	57
13C-2,3,4,4',5-PeCB	114	16.658	2.0	1.18	59
13C-2,3,3',4,4'-PeCB	105	17.112	2.0	1.25	62
13C-3,3',4,4',5-PeCB	126	18.137	2.0	1.14	57
13C-2,2',4,4',6,6'-HxCB	155	14.103	2.0	1.34	67
13C-2,3',4,4',5,5'-HxCB	167	18.659	2.0	1.30	65
13C-2,3,3',4,4',5-HxCB	156	19.297	2.0	1.27	64
13C-2,3,3',4,4',5'-HxCB	157	19.432	2.0	1.46	73
13C-3,3',4,4',5,5'-HxCB	169	20.440	2.0	1.23	62
13C-2,2',3,4',5,6,6'-HpCB	188	16.675	2.0	1.31	65
13C-2,3,3',4,4',5,5'-HpCB	189	21.442	2.0	1.30	65
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.079	2.0	1.09	54
13C-2,3,3',4,4',5,5',6-Occb	205	22.485	2.0	1.30	65
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	21.662	2.0	1.30	65
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.343	2.0	1.39	69
13C--DeCB	209	24.154	2.0	1.52	76
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.860	2.0	1.46	73
13C-2,3,3',5,5'-PeCB	111	15.246	2.0	1.14	57
13C-2,2',3,3',5,5',6-HpCB	178	17.936	2.0	1.06	53
Recovery Standards					
13C-2,5-DiCB	9	7.774	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.851	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.473	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.784	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.369	2.0	NA	NA

NA = Not Applicable

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**PCB Congener Screening Analysis Results
Blank Analysis Results**

Lab Sample ID	BLANK-62988	Matrix	Water
Filename	Y180624A_10	Dilution	NA
Injected By	BAL	Extracted	NA
Total Amount Extracted	1020 mL	Analyzed	06/24/2018 16:40
ICAL ID	Y180624A03		

Congener Group	Concentration pg/L	Reporting Limit pg/L
Total MoCB	ND	244
Total DiCB	322	244
Total TrCB	ND	244
Total TeCB	ND	244
Total PeCB	ND	244
Total HxCB	ND	244
Total HpCB	ND	244
Total OcCB	ND	244
Total NoCB	ND	244
DeCB	ND	244
Total PCBs	322	

ND = Not Detected

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PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Lab Sample ID: BLANK-62988
Filename: Y180624A_10

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.382	2.0	1.05	53
13C-4-MoCB	3	6.472	2.0	1.12	56
13C-2,2'-DiCB	4	6.939	2.0	1.14	57
13C-4,4'-DiCB	15	9.572	2.0	1.24	62
13C-2,2',6-TrCB	19	8.666	2.0	1.50	75
13C-3,4,4'-TrCB	37	12.644	2.0	1.74	87
13C-2,2',6,6'-TeCB	54	10.280	2.0	1.23	61
13C-3,4,4',5-TeCB	81	15.314	2.0	1.41	71
13C-3,3',4,4'-TeCB	77	15.634	2.0	1.51	75
13C-2,2',4,6,6'-PeCB	104	12.219	2.0	1.50	75
13C-2,3',4,4',5'-PeCB	123	16.239	2.0	1.67	83
13C-2,3',4,4',5-PeCB	118	16.340	2.0	1.74	87
13C-2,3,4,4',5-PeCB	114	16.642	2.0	1.72	86
13C-2,3,3',4,4'-PeCB	105	17.096	2.0	1.70	85
13C-3,3',4,4',5-PeCB	126	18.121	2.0	1.71	85
13C-2,2',4,4',6,6'-HxCB	155	14.087	2.0	1.42	71
13C-2,3',4,4',5,5'-HxCB	167	18.642	2.0	1.63	82
13C-2,3,3',4,4',5-HxCB	156	19.281	2.0	1.71	86
13C-2,3,3',4,4',5'-HxCB	157	19.416	2.0	1.64	82
13C-3,3',4,4',5,5'-HxCB	169	20.424	2.0	1.52	76
13C-2,2',3,4',5,6,6'-HpCB	188	16.659	2.0	1.63	81
13C-2,3,3',4,4',5,5'-HpCB	189	21.431	2.0	1.58	79
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.063	2.0	1.82	91
13C-2,3,3',4,4',5,5',6-Occb	205	22.474	2.0	1.61	80
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	21.663	2.0	1.67	84
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.332	2.0	1.62	81
13C--DeCB	209	24.144	2.0	1.75	88
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.818	2.0	1.63	81
13C-2,3,3',5,5'-PeCB	111	15.213	2.0	1.83	91
13C-2,2',3,3',5,5',6-HpCB	178	17.920	2.0	1.55	77
Recovery Standards					
13C-2,5-DiCB	9	7.675	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.457	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.751	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.358	2.0	NA	NA

NA = Not Applicable

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Section 2

Sample Data



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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Tel: 612-607-1700
Fax: 612-607-6444

PCB Congener Screening Analysis Results

Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	SW-018876-060718-SAG-201		
Lab Sample ID	265840001		
Filename	Y180624A_14		
Injected By	BAL	Matrix	Water
Total Amount Extracted	986 mL	Dilution	NA
% Moisture	NA	Collected	06/07/2018 08:30
Dry Weight Extracted	NA	Received	06/08/2018 09:30
ICAL ID	Y180624A03	Extracted	06/18/2018 14:55
Method Blank ID	BLANK-62988	Analyzed	06/24/2018 18:38

Congener Group	Concentration pg/L	Reporting Limit pg/L
Total MoCB	ND	254
Total DiCB	365	254
Total TrCB	594	254
Total TeCB	14600	254
Total PeCB	99800	254
Total HxCB	76100	254
Total HpCB	19000	254
Total OcCB	2650	254
Total NoCB	ND	254
DeCB	ND	254
Total PCBs	213000	

ND = Not Detected

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Tel: 612-607-1700
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**PCB Congener Screening Analysis Results
Labeled Analyte Recoveries**

Client Sample ID SW-018876-060718-SAG-201
Lab Sample ID 265840001
Filename Y180624A_14

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.382	2.0	0.912	46
13C-4-MoCB	3	6.472	2.0	0.898	45
13C-2,2'-DiCB	4	6.939	2.0	0.987	49
13C-4,4'-DiCB	15	9.572	2.0	1.10	55
13C-2,2',6-TrCB	19	8.666	2.0	1.67	84
13C-3,4,4'-TrCB	37	12.658	2.0	1.48	74
13C-2,2',6,6'-TeCB	54	10.280	2.0	1.07	53
13C-3,4,4',5-TeCB	81	15.331	2.0	1.18	59
13C-3,3',4,4'-TeCB	77	15.634	2.0	1.35	68
13C-2,2',4,6,6'-PeCB	104	12.233	2.0	0.894	45
13C-2,3',4,4',5'-PeCB	123	16.239	2.0	1.34	67
13C-2,3',4,4',5-PeCB	118	16.356	2.0	1.34	67
13C-2,3,4,4',5-PeCB	114	16.642	2.0	1.41	70
13C-2,3,3',4,4'-PeCB	105	17.096	2.0	1.37	68
13C-3,3',4,4',5-PeCB	126	18.138	2.0	1.41	70
13C-2,2',4,4',6,6'-HxCB	155	14.104	2.0	1.20	60
13C-2,3',4,4',5,5'-HxCB	167	18.642	2.0	1.60	80
13C-2,3,3',4,4',5-HxCB	156	19.298	2.0	1.60	80
13C-2,3,3',4,4',5'-HxCB	157	19.433	2.0	1.59	79
13C-3,3',4,4',5,5'-HxCB	169	20.441	2.0	1.60	80
13C-2,2',3,4',5,6,6'-HpCB	188	16.659	2.0	1.29	65
13C-2,3,3',4,4',5,5'-HpCB	189	21.431	2.0	1.33	67
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.080	2.0	1.43	71
13C-2,3,3',4,4',5,5',6-OcCB	205	22.486	2.0	1.35	67
13C-2,2',3,3',4,5,5',6-NoCB	208	21.675	2.0	1.42	71
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.344	2.0	1.32	66
13C--DeCB	209	24.156	2.0	1.52	76
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.832	2.0	1.53	77
13C-2,3,3',5,5'-PeCB	111	15.230	2.0	1.68	84
13C-2,2',3,3',5,5',6-HpCB	178	17.937	2.0	1.80	90
Recovery Standards					
13C-2,5-DiCB	9	7.675	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.457	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	18.642	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.370	2.0	NA	NA

NA = Not Applicable

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Tel: 612-607-1700
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PCB Congener Screening Analysis Results
Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	SW-018876-060718-SAG-202		
Lab Sample ID	265840002		
Filename	Y180624A_15		
Injected By	BAL	Matrix	Water
Total Amount Extracted	1020 mL	Dilution	NA
% Moisture	NA	Collected	06/07/2018 10:35
Dry Weight Extracted	NA	Received	06/08/2018 09:30
ICAL ID	Y180624A03	Extracted	06/18/2018 14:55
Method Blank ID	BLANK-62988	Analyzed	06/24/2018 19:07

Congener Group	Concentration pg/L	Reporting Limit pg/L
Total MoCB	ND	244
Total DiCB	9980	244
Total TrCB	58700	244
Total TeCB	210000	244
Total PeCB	218000	244
Total HxCB	154000	244
Total HpCB	78600	244
Total OcCB	18100	244
Total NoCB	1190	244
DeCB	ND	244
Total PCBs	748000	

ND = Not Detected

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**PCB Congener Screening Analysis Results
Labeled Analyte Recoveries**

Client Sample ID SW-018876-060718-SAG-202
Lab Sample ID 265840002
Filename Y180624A_15

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.354	2.0	0.733	37
13C-4-MoCB	3	6.458	2.0	0.747	37
13C-2,2'-DiCB	4	6.911	2.0	0.851	43
13C-4,4'-DiCB	15	9.558	2.0	0.795	40
13C-2,2',6-TrCB	19	8.652	2.0	1.15	57
13C-3,4,4'-TrCB	37	12.643	2.0	1.03	51
13C-2,2',6,6'-TeCB	54	10.280	2.0	0.711	36
13C-3,4,4',5-TeCB	81	15.313	2.0	1.10	55
13C-3,3',4,4'-TeCB	77	15.633	2.0	1.03	52
13C-2,2',4,6,6'-PeCB	104	12.219	2.0	0.513	26
13C-2,3',4,4',5'-PeCB	123	16.221	2.0	1.20	60
13C-2,3',4,4',5-PeCB	118	16.339	2.0	1.24	62
13C-2,3,4,4',5-PeCB	114	16.641	2.0	1.18	59
13C-2,3,3',4,4'-PeCB	105	17.095	2.0	1.22	61
13C-3,3',4,4',5-PeCB	126	18.137	2.0	1.36	68
13C-2,2',4,4',6,6'-HxCB	155	14.086	2.0	0.967	48
13C-2,3',4,4',5,5'-HxCB	167	18.642	2.0	1.60	80
13C-2,3,3',4,4',5-HxCB	156	19.281	2.0	1.68	84
13C-2,3,3',4,4',5'-HxCB	157	19.415	2.0	1.54	77
13C-3,3',4,4',5,5'-HxCB	169	20.424	2.0	1.61	81
13C-2,2',3,4',5,6,6'-HpCB	188	16.658	2.0	1.12	56
13C-2,3,3',4,4',5,5'-HpCB	189	21.430	2.0	1.28	64
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.062	2.0	1.34	67
13C-2,3,3',4,4',5,5',6-OcCB	205	22.474	2.0	1.22	61
13C-2,2',3,3',4,5,5',6-NoCB	208	21.662	2.0	1.34	67
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.331	2.0	1.34	67
13C--DeCB	209	24.143	2.0	1.36	68
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.817	2.0	1.67	84
13C-2,3,3',5,5'-PeCB	111	14.456	2.0	1.56	78
13C-2,2',3,3',5,5',6-HpCB	178	17.919	2.0	2.01	101
Recovery Standards					
13C-2,5-DiCB	9	7.661	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.456	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	18.642	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.369	2.0	NA	NA

NA = Not Applicable

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PCB Congener Screening Analysis Results Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	SED-018876-060718-SAG-301		
Lab Sample ID	265840003		
Filename	Y180624A_16		
Injected By	BAL	Matrix	Solid
Total Amount Extracted	12.0 g	Dilution	NA
% Moisture	26.1	Collected	06/07/2018 08:40
Dry Weight Extracted	8.87 g	Received	06/08/2018 09:30
ICAL ID	Y180624A03	Extracted	06/13/2018 14:50
Method Blank ID	BLANK-62888	Analyzed	06/24/2018 19:37

Congener Group	Concentration ng/Kg	Reporting Limit ng/Kg
Total MoCB	ND	28.2
Total DiCB	ND	28.2
Total TrCB	276	28.2
Total TeCB	7520	28.2
Total PeCB	77400	28.2
Total HxCB	59200	28.2
Total HpCB	12200	28.2
Total OcCB	1900	28.2
Total NoCB	409	28.2
DeCB	873	28.2
Total PCBs	160000	

ND = Not Detected

Results reported on a dry weight basis

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**PCB Congener Screening Analysis Results
Labeled Analyte Recoveries**

Client Sample ID SED-018876-060718-SAG-301
Lab Sample ID 265840003
Filename Y180624A_16

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.340	2.0	0.984	49
13C-4-MoCB	3	6.458	2.0	1.02	51
13C-2,2'-DiCB	4	6.925	2.0	1.02	51
13C-4,4'-DiCB	15	9.657	2.0	1.14	57
13C-2,2',6-TrCB	19	8.680	2.0	1.69	84
13C-3,4,4'-TrCB	37	12.658	2.0	1.45	73
13C-2,2',6,6'-TeCB	54	10.308	2.0	1.35	67
13C-3,4,4',5-TeCB	81	15.331	2.0	1.42	71
13C-3,3',4,4'-TeCB	77	15.650	2.0	1.44	72
13C-2,2',4,6,6'-PeCB	104	12.233	2.0	1.39	69
13C-2,3',4,4',5'-PeCB	123	16.239	2.0	1.50	75
13C-2,3',4,4',5-PeCB	118	16.356	2.0	1.51	76
13C-2,3,4,4',5-PeCB	114	16.659	2.0	1.49	75
13C-2,3,3',4,4'-PeCB	105	17.113	2.0	1.46	73
13C-3,3',4,4',5-PeCB	126	18.138	2.0	1.37	69
13C-2,2',4,4',6,6'-HxCB	155	14.104	2.0	1.27	63
13C-2,3',4,4',5,5'-HxCB	167	18.659	2.0	1.44	72
13C-2,3,3',4,4',5-HxCB	156	19.298	2.0	1.41	70
13C-2,3,3',4,4',5'-HxCB	157	19.433	2.0	1.41	71
13C-3,3',4,4',5,5'-HxCB	169	20.441	2.0	1.35	67
13C-2,2',3,4',5,6,6'-HpCB	188	16.676	2.0	1.57	78
13C-2,3,3',4,4',5,5'-HpCB	189	21.443	2.0	1.42	71
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.080	2.0	1.68	84
13C-2,3,3',4,4',5,5',6-OcCB	205	22.498	2.0	1.58	79
13C-2,2',3,3',4,5,5',6-NoCB	208	21.675	2.0	1.67	84
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.356	2.0	1.46	73
13C--DeCB	209	24.156	2.0	1.61	80
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.832	2.0	1.13	57
13C-2,3,3',5,5'-PeCB	111	15.230	2.0	1.35	68
13C-2,2',3,3',5,5',6-HpCB	178	17.936	2.0	1.25	63
Recovery Standards					
13C-2,5-DiCB	9	7.675	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.851	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.474	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.768	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.370	2.0	NA	NA

NA = Not Applicable

ND = Not Detected

RT = Retention Time

ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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PCB Congener Screening Analysis Results

Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	SED-018876-060718-SAG-302		
Lab Sample ID	265840004		
Filename	Y180624A_17		
Injected By	BAL	Matrix	Solid
Total Amount Extracted	13.0 g	Dilution	NA
% Moisture	33.5	Collected	06/07/2018 10:45
Dry Weight Extracted	8.64 g	Received	06/08/2018 09:30
ICAL ID	Y180624A03	Extracted	06/13/2018 14:50
Method Blank ID	BLANK-62888	Analyzed	06/24/2018 20:06

Congener Group	Concentration ng/Kg	Reporting Limit ng/Kg
Total MoCB	525	28.9
Total DiCB	44400	28.9
Total TrCB	353000	28.9
Total TeCB	2280000	28.9
Total PeCB	2630000	28.9
Total HxCB	1770000	28.9
Total HpCB	940000	28.9
Total OcCB	221000	28.9
Total NoCB	12500	28.9
DeCB	975	28.9
Total PCBs	8250000	

ND = Not Detected

Results reported on a dry weight basis

REPORT OF LABORATORY ANALYSIS

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PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Client Sample ID SED-018876-060718-SAG-302
Lab Sample ID 265840004
Filename Y180624A_17

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.326	2.0	0.676	34
13C-4-MoCB	3	6.444	2.0	0.792	40
13C-2,2'-DiCB	4	6.911	2.0	0.820	41
13C-4,4'-DiCB	15	9.699	2.0	0.786	39
13C-2,2',6-TrCB	19	8.680	2.0	2.44	122
13C-3,4,4'-TrCB	37	12.658	2.0	1.32	66
13C-2,2',6,6'-TeCB	54	10.322	2.0	1.03	51
13C-3,4,4'-TeCB	81	15.330	2.0	1.24	62
13C-3,3',4,4'-TeCB	77	15.650	2.0	1.16	58
13C-2,2',4,6,6'-PeCB	104	12.233	2.0	1.22	61
13C-2,3',4,4',5'-PeCB	123	16.255	2.0	1.12	56
13C-2,3',4,4',5-PeCB	118	16.356	2.0	1.16	58
13C-2,3,4,4',5-PeCB	114	16.658	2.0	1.19	60
13C-2,3,3',4,4'-PeCB	105	17.112	2.0	1.21	61
13C-3,3',4,4',5-PeCB	126	18.138	2.0	1.18	59
13C-2,2',4,4',6,6'-HxCB	155	14.103	2.0	1.07	54
13C-2,3',4,4',5,5'-HxCB	167	18.659	2.0	1.06	53
13C-2,3,3',4,4',5-HxCB	156	19.314	2.0	0.906	45
13C-2,3,3',4,4',5'-HxCB	157	19.432	2.0	0.870	44
13C-3,3',4,4',5,5'-HxCB	169	20.440	2.0	1.08	54
13C-2,2',3,4',5,6,6'-HpCB	188	16.675	2.0	1.19	60
13C-2,3,3',4,4',5,5'-HpCB	189	21.454	2.0	0.969	48
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.096	2.0	1.05	52
13C-2,3,3',4,4',5,5',6-Occb	205	22.497	2.0	1.06	53
13C-2,2',3,3',4,5,5',6-NoCB	208	21.674	2.0	1.08	54
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.355	2.0	0.944	47
13C--DeCB	209	24.166	2.0	0.985	49
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.846	2.0	1.04	52
13C-2,3,3',5,5'-PeCB	111	15.229	2.0	1.09	55
13C-2,2',3,3',5,5',6-HpCB	178	17.936	2.0	0.957	48
Recovery Standards					
13C-2,5-DiCB	9	7.675	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.851	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.473	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.768	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.381	2.0	NA	NA

NA = Not Applicable

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Minneapolis, MN 55414

Tel: 612-607-1700
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PCB Congener Screening Analysis Results

Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	SO-018876-060718-SAG-401		
Lab Sample ID	265840005		
Filename	Y180624A_18		
Injected By	BAL	Matrix	Solid
Total Amount Extracted	13.0 g	Dilution	NA
% Moisture	48.3	Collected	06/07/2018 09:00
Dry Weight Extracted	6.72 g	Received	06/08/2018 09:30
ICAL ID	Y180624A03	Extracted	06/13/2018 14:50
Method Blank ID	BLANK-62888	Analyzed	06/24/2018 20:36

Congener Group	Concentration ng/Kg	Reporting Limit ng/Kg
Total MoCB	175	37.2
Total DiCB	10700	37.2
Total TrCB	58500	37.2
Total TeCB	1100000	37.2
Total PeCB	4350000	37.2
Total HxCB	3980000	37.2
Total HpCB	2060000	37.2
Total OcCB	461000	37.2
Total NoCB	27900	37.2
DeCB	2060	37.2
Total PCBs	12000000	

ND = Not Detected

Results reported on a dry weight basis

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**PCB Congener Screening Analysis Results
Labeled Analyte Recoveries**

Client Sample ID SO-018876-060718-SAG-401
Lab Sample ID 265840005
Filename Y180624A_18

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.311	2.0	0.721	36
13C-4-MoCB	3	6.430	2.0	0.820	41
13C-2,2'-DiCB	4	6.897	2.0	0.827	41
13C-4,4'-DiCB	15	9.629	2.0	0.796	40
13C-2,2',6-TrCB	19	8.652	2.0	1.54	77
13C-3,4,4'-TrCB	37	12.644	2.0	1.61	80
13C-2,2',6,6'-TeCB	54	10.280	2.0	1.03	51
13C-3,4,4',5-TeCB	81	15.331	2.0	1.19	60
13C-3,3',4,4'-TeCB	77	15.633	2.0	1.05	52
13C-2,2',4,6,6'-PeCB	104	12.219	2.0	1.48	74
13C-2,3',4,4',5'-PeCB	123	16.239	2.0	1.53	76
13C-2,3',4,4',5-PeCB	118	16.339	2.0	1.40	70
13C-2,3,4,4',5-PeCB	114	16.642	2.0	1.50	75
13C-2,3,3',4,4'-PeCB	105	17.096	2.0	1.37	68
13C-3,3',4,4',5-PeCB	126	18.138	2.0	1.47	74
13C-2,2',4,4',6,6'-HxCB	155	14.087	2.0	1.21	61
13C-2,3',4,4',5,5'-HxCB	167	18.659	2.0	1.13	56
13C-2,3,3',4,4',5-HxCB	156	19.298	2.0	1.19	60
13C-2,3,3',4,4',5'-HxCB	157	19.416	2.0	1.20	60
13C-3,3',4,4',5,5'-HxCB	169	20.441	2.0	1.25	63
13C-2,2',3,4',5,6,6'-HpCB	188	16.659	2.0	1.23	61
13C-2,3,3',4,4',5,5'-HpCB	189	21.431	2.0	1.23	61
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.079	2.0	1.32	66
13C-2,3,3',4,4',5,5',6-Occb	205	22.486	2.0	1.12	56
13C-2,2',3,3',4,5,5',6-NoCB	208	21.674	2.0	1.24	62
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.344	2.0	1.17	59
13C--DeCB	209	24.155	2.0	1.19	60
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.818	2.0	1.40	70
13C-2,3,3',5,5'-PeCB	111	15.213	2.0	1.39	70
13C-2,2',3,3',5,5',6-HpCB	178	17.920	2.0	1.13	56
Recovery Standards					
13C-2,5-DiCB	9	7.647	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.457	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.768	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.370	2.0	NA	NA

NA = Not Applicable

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PCB Congener Screening Analysis Results

Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	SO-018876-060718-SAG-404		
Lab Sample ID	265840006		
Filename	Y180624A_19		
Injected By	BAL	Matrix	Solid
Total Amount Extracted	13.2 g	Dilution	NA
% Moisture	29.3	Collected	06/07/2018 09:40
Dry Weight Extracted	9.33 g	Received	06/08/2018 09:30
ICAL ID	Y180624A03	Extracted	06/13/2018 14:50
Method Blank ID	BLANK-62888	Analyzed	06/24/2018 21:05

Congener Group	Concentration ng/Kg	Reporting Limit ng/Kg
Total MoCB	ND	26.8
Total DiCB	ND	26.8
Total TrCB	1160	26.8
Total TeCB	2400	26.8
Total PeCB	2150	26.8
Total HxCB	1810	26.8
Total HpCB	714	26.8
Total OcCB	81.0	26.8
Total NoCB	ND	26.8
DeCB	ND	26.8
Total PCBs	8320	

ND = Not Detected

Results reported on a dry weight basis

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**PCB Congener Screening Analysis Results
Labeled Analyte Recoveries**

Client Sample ID SO-018876-060718-SAG-404
Lab Sample ID 265840006
Filename Y180624A_19

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.326	2.0	0.682	34
13C-4-MoCB	3	6.444	2.0	0.662	33
13C-2,2'-DiCB	4	6.911	2.0	0.669	33
13C-4,4'-DiCB	15	9.572	2.0	0.773	39
13C-2,2',6-TrCB	19	8.637	2.0	0.980	49
13C-3,4,4'-TrCB	37	12.672	2.0	0.879	44
13C-2,2',6,6'-TeCB	54	10.280	2.0	0.765	38
13C-3,4,4',5-TeCB	81	15.330	2.0	1.14	57
13C-3,3',4,4'-TeCB	77	15.649	2.0	1.12	56
13C-2,2',4,6,6'-PeCB	104	12.233	2.0	0.821	41
13C-2,3',4,4',5'-PeCB	123	16.238	2.0	1.29	64
13C-2,3',4,4',5-PeCB	118	16.355	2.0	1.37	68
13C-2,3,4,4',5-PeCB	114	16.641	2.0	1.33	67
13C-2,3,3',4,4'-PeCB	105	17.095	2.0	1.34	67
13C-3,3',4,4',5-PeCB	126	18.137	2.0	1.43	72
13C-2,2',4,4',6,6'-HxCB	155	14.120	2.0	1.16	58
13C-2,3',4,4',5,5'-HxCB	167	18.642	2.0	1.25	62
13C-2,3,3',4,4',5-HxCB	156	19.297	2.0	1.27	63
13C-2,3,3',4,4',5'-HxCB	157	19.415	2.0	1.24	62
13C-3,3',4,4',5,5'-HxCB	169	20.440	2.0	1.36	68
13C-2,2',3,4',5,6,6'-HpCB	188	16.658	2.0	1.31	66
13C-2,3,3',4,4',5,5'-HpCB	189	21.430	2.0	1.34	67
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.062	2.0	1.40	70
13C-2,3,3',4,4',5,5',6-Occb	205	22.485	2.0	1.35	67
13C-2,2',3,3',4,5,5',6-NoCB	208	21.662	2.0	1.30	65
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.343	2.0	1.34	67
13C--DeCB	209	24.154	2.0	1.32	66
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.817	2.0	1.06	53
13C-2,3,3',5,5'-PeCB	111	15.229	2.0	1.17	58
13C-2,2',3,3',5,5',6-HpCB	178	17.935	2.0	1.22	61
Recovery Standards					
13C-2,5-DiCB	9	7.647	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.837	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.473	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.767	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.369	2.0	NA	NA

NA = Not Applicable

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ng's = Nanograms

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Tel: 612-607-1700
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PCB Congener Screening Analysis Results

Sample Analysis Results

Client - PASI-Georgia

Client's Sample ID	SO-018876-060718-SAG-406		
Lab Sample ID	265840007		
Filename	Y180624A_20		
Injected By	BAL	Matrix	Solid
Total Amount Extracted	13.2 g	Dilution	NA
% Moisture	38.6	Collected	06/07/2018 10:00
Dry Weight Extracted	8.11 g	Received	06/08/2018 09:30
ICAL ID	Y180624A03	Extracted	06/13/2018 14:50
Method Blank ID	BLANK-62888	Analyzed	06/24/2018 21:35

Congener Group	Concentration ng/Kg	Reporting Limit ng/Kg
Total MoCB	331	30.8
Total DiCB	8410	30.8
Total TrCB	187000	30.8
Total TeCB	3230000	30.8
Total PeCB	4960000	30.8
Total HxCB	4440000	30.8
Total HpCB	3080000	30.8
Total OcCB	754000	30.8
Total NoCB	42300	30.8
DeCB	4050	30.8
Total PCBs	16700000	

ND = Not Detected

Results reported on a dry weight basis

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PCB Congener Screening Analysis Results
Labeled Analyte Recoveries

Client Sample ID SO-018876-060718-SAG-406
Lab Sample ID 265840007
Filename Y180624A_20

PCB Isomer	IUPAC	RT	ng's Added	ng's Found	% Recovery
Labeled Analytes					
13C-2-MoCB	1	5.340	2.0	1.08	54
13C-4-MoCB	3	6.444	2.0	1.18	59
13C-2,2'-DiCB	4	6.911	2.0	1.25	62
13C-4,4'-DiCB	15	9.813	2.0	1.07	53
13C-2,2',6-TrCB	19	8.737	2.0	2.57	129
13C-3,4,4'-TrCB	37	12.672	2.0	2.01	100
13C-2,2',6,6'-TeCB	54	10.379	2.0	1.51	76
13C-3,4,4',5-TeCB	81	15.331	2.0	1.58	79
13C-3,3',4,4'-TeCB	77	15.650	2.0	1.65	83
13C-2,2',4,6,6'-PeCB	104	12.248	2.0	1.63	81
13C-2,3',4,4',5'-PeCB	123	16.255	2.0	1.63	82
13C-2,3',4,4',5-PeCB	118	16.356	2.0	1.65	82
13C-2,3,4,4',5-PeCB	114	16.659	2.0	1.75	88
13C-2,3,3',4,4'-PeCB	105	17.112	2.0	1.51	75
13C-3,3',4,4',5-PeCB	126	18.138	2.0	1.69	85
13C-2,2',4,4',6,6'-HxCB	155	14.104	2.0	1.55	78
13C-2,3',4,4',5,5'-HxCB	167	18.659	2.0	1.42	71
13C-2,3,3',4,4',5-HxCB	156	19.298	2.0	1.55	77
13C-2,3,3',4,4',5'-HxCB	157	19.432	2.0	1.58	79
13C-3,3',4,4',5,5'-HxCB	169	20.441	2.0	1.84	92
13C-2,2',3,4',5,6,6'-HpCB	188	16.676	2.0	1.24	62
13C-2,3,3',4,4',5,5'-HpCB	189	21.442	2.0	1.40	70
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.079	2.0	1.51	75
13C-2,3,3',4,4',5,5',6-Occb	205	22.497	2.0	1.28	64
13C-2,2',3,3',4,5,5',6-NoCB	208	21.674	2.0	1.33	67
13C-2,2',3,3',4,4',5,5',6-NoCB	206	24.004	2.0	1.98	99
13C--DeCB	209	24.155	2.0	1.29	64
Cleanup Standards					
13C-2,4,4'-TrCB	28	10.875	2.0	1.64	82
13C-2,3,3',5,5'-PeCB	111	15.230	2.0	1.53	76
13C-2,2',3,3',5,5',6-HpCB	178	17.936	2.0	1.43	72
Recovery Standards					
13C-2,5-DiCB	9	7.675	2.0	NA	NA
13C-2,2',5,5'-TeCB	52	11.865	2.0	NA	NA
13C-2,2',4,5,5'-PeCB	101	14.474	2.0	NA	NA
13C-2,2',3,4,4',5'-HxCB	138	17.785	2.0	NA	NA
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.382	2.0	NA	NA

NA = Not Applicable

ND = Not Detected

RT = Retention Time

ng's = Nanograms

REPORT OF LABORATORY ANALYSIS

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Section 3

Standards Data



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Polychlorobiphenyl Screen Single Point Calibration

Calibration ID	Y180624A_03	Data File	Y180624A_03
Calibration Date	06/24/2018 12:53	Injected By	BAL
Initial Calibration	Y180624A_03	Column Phase	ZB-5MS
Instrument	10MSHR12 (Y)	Column ID No.	

Parameter	RT Lo	RT Hi	RF
Total MoCB	5.297	6.415	1.3307
Total DiCB	6.883	9.543	2.2416
Total TrCB	8.623	12.644	2.9103
Total TeCB	10.266	15.633	2.2456
Total PeCB	12.219	18.121	1.6696
Total HxCB	14.086	20.440	1.9156
Total HpCB	16.658	21.430	1.7904
Total OcCB	19.062	22.485	2.0700
Total NoCB	21.662	23.343	2.6589
DeCB	24.154	24.154	0.9877

RT Lo = Lower Retention Time Window
RT Hi = Upper Retention Time Windows
RF = Response Factor

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Polychlorobiphenyl Screen Single Point Calibration

Data File Y180624A_03
Calibration Date 06/24/2018 12:53
Instrument 10MSHR12 (Y)

Injected By BAL
Column Phase ZB-5MS
Column ID No.

Parameter	IUPAC	RT	RF
Labeled Analytes			
13C-2-MoCB	1	5.297	1.0803
13C-4-MoCB	3	6.415	1.2013
13C-2,2'-DiCB	4	6.883	0.6148
13C-4,4'-DiCB	15	9.543	1.0997
13C-2,2',6-TrCB	19	8.623	0.4311
13C-3,4,4'-TrCB	37	12.644	2.0604
13C-2,2',6,6'-TeCB	54	10.266	1.1290
13C-3,4,4',5-TeCB	81	15.314	1.7434
13C-3,3',4,4'-TeCB	77	15.633	1.7928
13C-2,2',4,6,6'-PeCB	104	12.219	0.6951
13C-2,3',4,4',5-PeCB	123	16.238	1.1680
13C-2,3',4,4',5-PeCB	118	16.356	1.2352
13C-2,3,4,4',5-PeCB	114	16.642	1.1950
13C-2,3,3',4,4'-PeCB	105	17.095	1.2060
13C-3,3',4,4',5-PeCB	126	18.121	1.1317
13C-2,2',4,4',6,6'-HxCB	155	14.086	1.4208
13C-2,3',4,4',5,5'-HxCB	167	18.642	1.2520
13C-2,3,3',4,4',5-HxCB	156	19.281	1.1681
13C-2,3,3',4,4',5'-HxCB	157	19.415	1.1995
13C-3,3',4,4',5,5'-HxCB	169	20.440	1.1504
13C-2,2',3,4',5,6,6'-HpCB	188	16.658	1.5004
13C-2,3,3',4,4',5,5'-HpCB	189	21.430	1.6393
13C-2,2',3,3',5,5',6,6'-OcCB	202	19.062	1.1289
13C-2,3,3',4,4',5,5',6-OcCB	205	22.485	1.2780
13C-2,2',3,3',4,5,5',6,6'-NoCB	208	21.662	1.3196
13C-2,2',3,3',4,4',5,5',6-NoCB	206	23.343	0.9297
13C--DeCB	209	24.154	0.9877
Cleanup Standards			
13C-2,4,4'-TrCB	28	10.803	2.4020
13C-2,3,3',5,5'-PeCB	111	15.213	1.2811
13C-2,2',3,3',5,5',6-HpCB	178	17.936	0.8000
Recovery Standards			
13C-2,5-DiCB	9	7.633	2.6903
13C-2,2',5,5'-TeCB	52	11.837	0.9053
13C-2,2',4,5,5'-PeCB	101	14.456	1.6213
13C-2,2',3,4,4',5'-HxCB	138	17.768	1.2500
13C-2,2',3,3',4,4',5,5'-OcCB	194	22.369	0.8731

RT = Retention Time

RF = Response Factor

REPORT OF LABORATORY ANALYSIS

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Section 4

Preparation Logs

1668A - 209

Solid

Soxhlet

EB-22222

		Extract Solvents:	Extraction On (Date/Time):	
QC Matrix Lot #:	Rinsed & Baked	Toluene Lot #	174397	06/13/18 14:50
Time of Spiking:	06/13/18 13:50	Hexane Lot #		Extraction Off (Date/Time):
Balance:	10BAL2	MeCl Lot #		06/14/18 06:55

Standards	Name/ID	Amount	Initial	Witness	Expiration Date	Dispenser
Internal Std.	209-I-11754-172	100	NH	AXH	06/04/19	Q482
Native	209-N-11754-141	100	NH	AXH	03/06/19	Q482
CI37 Std.	209-CL-11754-171	100	NH		06/01/19	Q482
Recovery	209-R-11754-167	10	MCH		05/16/19	Q521
Tridecane	TRIDEC	10	MCH			
Others	NONANE	380	MCH			

#	Sample ID	Internal Standards	Native Standards	Extracted mL or g	Glassware Set	Location	Comments
1	BLANK-62888	x		25.1			
2	LCS-62889	x	x	25.2			
3	LCSD-62890	x	x	25.1			
4	10435011001	x		25.0		Rcving	powder 1613B,T-O,1668/1668A/1668C-209,Abbott!
5	10435106001	x		5.3		Rcving	8290/8290A T-0, 1668/1668A/1668C
6	265840003	x		12.0		16/309	1668/1668A/1668C-Trackback
7	265840004	x		13.0		16/309	1668/1668A/1668C-Trackback
8	265840005	x		13.0		16/309	1668/1668A/1668C-Trackback
9	265840006	x		13.2		16/309	1668/1668A/1668C-Trackback
10	265840007	x		13.2		16/309	1668/1668A/1668C-Trackback

Relinquished By: _____

Received By: _____

Date: _____

1. Final 12mm 209 columns run 6/18/18. NMP

MeCl2: 182138, Q424

Hexane: 180405, Q266

Silica: 182A, 182N

Silica	Alumina	Carbon	Florisil
Initials <u>NMP</u> Date <u>6/15/2018</u>	Initials _____ Date _____	Initials _____ Date _____	Initials _____ Date _____
Neutral Batch <u>182</u>	Alumina Lot # _____	Hexane Lot # _____	Florisil Lot # _____
Basic Batch <u>182</u>	Hexane Lot # _____	Dispenser _____	Hexane Lot # _____
Acid Batch <u>182</u>	Dispenser _____	50% Batch _____	Dispenser _____
Hexane Lot # <u>180405</u>	60% Batch _____	Dispenser _____	6% Batch _____
Dispenser <u>Q266</u>	Dispenser _____	75% Batch _____	Dispenser _____
Acid Base			
Sulphuric Acid Lot # _____			
Base Batch <u>179162</u>			
Toluene Lot # _____			
Dispenser _____			
Methanol Lot # _____			
Dispenser _____			

1668A - 209

Water

Sep Funnel

EB-22260

QC Matrix Lot #: DI Water

Extract Solvents:

Extraction On (Date/Time):

Time of Spiking: 06/18/18 11:55

Toluene Lot #

06/18/18 14:55

Balance: 10BAL2

Hexane Lot #

Extraction Off (Date/Time):

SPE Filter Lot:

MeCl Lot # 182138

06/18/18 17:50

Standards	Name/ID	Amount	Initial	Witness	Expiration Date
Internal Std.	209-I-11754-172	100	NH	KMP	06/04/19
Native	209-N-11754-141	100	NH	KMP	03/06/19
CI37 Std.	209-CL-11754-171	100	NH		06/01/19
Recovery	209-R-11754-167	10	PED		05/16/19
Tridecane		10	PED		
Others	NONANE	180	PED		

#	Sample ID	Internal Standards	Native Standards	Full Bottle Weight	Empty Bottle Weight	pH/ResCl Check	pH Adjusted	Glassware Set	Location	Comments
1	BLANK-62988	x		1531.1	508.5	x				
2	LCS-62989	x	x	1549.4	509.3	x				
3	LCSD-62998	x	x	1525.7	509.6	x				
4	265836001	x		1420.4	463.9	x	x		11/77	1668-Trackback
5	265836002	x		1479.9	461.3	x			11/77	1668-Trackback
6	265836003	x		1470.3	466.2	x			11/77	1668-Trackback
7	265840001	x		1452.0	466.3	x			11/77	1668-Trackback
8	265840002	x		1488.5	465.6	x			11/77	1668-Trackback
9	7054002001	x		1288.2	432.8	x			Rcvng	1668A 209

Relinquished By: P Demas

Received By:

Date:

F-MN-H-045-Rev.02, 28Jan2016

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Silica	Alumina	Carbon	Florisil
Initials NMP	Initials _____	Initials _____	Initials _____
Date 6/19/2018	Date _____	Date _____	Date _____
Neutral Batch 182	Alumina Lot # _____	Hexane Lot # _____	Florisil Lot # _____
Basic Batch 182	Hexane Lot # _____	Dispenser _____	Hexane Lot # _____
Acid Batch 182	Dispenser _____	50% Batch _____	Dispenser _____
Hexane Lot # 180405	60% Batch _____	Dispenser _____	6% Batch _____
Dispenser Q266	Dispenser _____	75% Batch _____	Dispenser _____
Acid Base			
Sulphuric Acid Lot # _____		Toluene Lot # _____	Sulfate Batch _____
Base Batch _____		Dispenser _____	
		Methanol Lot # _____	
		Dispenser _____	
Sample #2: sample had to be respiked; did not wait one hour before starting tumbling...			

Appendix D

Property Access Agreement



June 28, 2018

Reference No. 018876

Southland Circle Marx LP
P.O Box 20118
Atlanta, Georgia 30325

Dear Sir/Madam:

Re: Permission for Property Access to Install Groundwater Monitoring Wells

The Georgia Environmental Protection Division (EPD) and the CBS Corporation (CBS) are working together to investigate the GTG Properties LLC property located at 1610 Southland Circle NW, Atlanta, Georgia. GHD is conducting the investigation activities on behalf of CBS.

As part of these investigation activities, the EPD has directed CBS to collect groundwater samples on some of the downgradient properties, including your property located at 1561 Southland Circle NW, Atlanta, Georgia. To conduct this sampling, a small diameter monitoring well will be installed on the northern portion of your property and groundwater will be collected for analysis.

CBS is therefore requesting permission to access your property to install and sample at one or two groundwater sampling points. Once the monitoring wells are installed, groundwater samples will be collected on a periodic basis.

This access will not require the removal of any grass, bushes or hard surface (asphalt or concrete) from your property. Any disturbance will be kept to a minimum and the area will be restored to current conditions. Only properly trained and qualified GHD personnel will be permitted to enter your property and will only enter your property to access the sample points, and only after notifying you in advance of a visit. Initial installation and sampling of the sample points will take approximately two days. Each subsequent sampling visit will require approximately two hours.

We have prepared the attached Property Access Agreement to conduct the work requested by the EPD. If the attached agreement is acceptable to you, please sign and date both copies, and return the originals to me via U.S. mail using the enclosed self-addressed/stamped envelope. CBS will then sign the agreements and return one original to you. We will contact you in advance of any activities before we access your property.

GHD, on behalf of CBS, appreciates your assistance with this matter. Please contact me at (678) 280-2140 or at terefe.mazengia@ghd.com or Mr. Dean Reed with CBS at (412) 642 4162 or at dean.reed@cbs.com if you have any questions regarding this request or the property access agreement.



Thank you in advance for your time and attention to this matter.

Sincerely,

GHD

A handwritten signature in blue ink, appearing to read "Terefe Mazengia, P.G.", is written over the typed name.

Terefe Mazengia, P.G.

TM/tb/1

Encl.

cc: Michael Smilley, Georgia Environmental Protection Division
Southland Circle Marx LP c/o 1561 Southland Circle NW, Atlanta, Georgia

Property Access Agreement

Southland Circle Marx LP hereby grants CBS Corporation (CBS) and its contractors authorization to access the property located at 1561 Southland Circle NW, Atlanta, Georgia (hereinafter the "Property") to conduct the following work:

1. install one to two groundwater monitoring wells at the northern portion of the property; and
2. periodically collect groundwater samples from the installed monitoring wells.

CBS or its contractors will contact your designated person at least two weeks in advance of coming onto the Property to conduct the above work. CBS and its contractors will conduct the work discussed above at reasonable times, in a manner so as to avoid damage to existing structures or utilities, and will restore the Property where the sampling occurs.

Access is granted until such time as the Georgia Environmental Protection Division authorizes CBS to cease sampling. At the conclusion of the sampling activities, CBS will close out the monitoring wells in accordance with applicable laws and restore the property where the monitoring wells are located as nearly as practicable to its condition before the installations.

This Agreement is entered into this _____ day of _____, 2018.

Southland Circle Marx LP
1561 Southland Circle, Atlanta Georgia

By: _____

CBS Corporation

By: _____

Name:

Title:



Appendix E Summary of Hours

Appendix E

Summary of Monthly Professional Hours
Second VRP Progress Report
Southland Circle Property (HSI #10077)
Atlanta, Georgia

S/N	Description of Tasks	Total Hours Billed	Month (January - June 2018)					
			January	February	March	April	May	June
1	Communication/discussion with EPD and client	17.5	5		12.5			
2	Coordination and oversight of field work	20.5				2.5	18	
3	Field and Analytical data review	9.5						9.5
4	Review and finalize Second VRP Progress Report	10						10
5	Overall Project Management	6		4				2
Total Hours		63.5						



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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