

Phase II Environmental Site Assessment

917-923 Derby Lane and 1324 South Webster Avenue,
Village of Allouez, Wisconsin

Wisconsin Department of Natural Resources

Project number: 60615481

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Quality information

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I, Lanette Altenbach, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.



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March 13, 2020
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Executive Summary

AECOM Technical Services, Inc. (AECOM) conducted a Phase II Environmental Site Assessment (ESA) at 917-923 Derby Lane and 1324 South Webster Avenue, Village of Allouez, Wisconsin under the Wisconsin Assessment Monies (WAM) Contractor Services program. The purpose of the Phase II ESA was to evaluate recognized environmental conditions (RECs) identified in a Phase I ESA conducted by AECOM in July 2019. The subject property consists of three parcels totaling approximately 1.05 acres.

In 2019 AECOM Technical Services (AECOM) conducted a Phase I ESA on the three parcels combined as a single subject property. The Phase I ESA identified the following RECs on the property as related to historical uses or environmental impact identified on adjacent properties on the east side of Webster Avenue and south of Derby Lane. The RECs were:

- The historical use of the property as a gasoline and automotive service station;
- The unknown quality of fill soil placed on the subject property;
- The presence of groundwater contamination from 1401 South Webster Avenue;
- A former dry cleaner located approximately 200 feet north of the subject property at 1304 South Webster Avenue; and
- A documented groundwater contaminant plume associated with 1404 South Webster Avenue (a former gasoline station which was later converted to a dry cleaner) that is located immediately adjacent to the subject property on the south side of Derby Lane.

Soil probe borings were completed at 14 locations and 35 soil samples were collected and analyzed for volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs) and eight RCRA metals. Five soil probe boring locations were completed as temporary wells; SP-105, SP-109, SP-111, SP-112 and SP-114. One groundwater sample was collected from each location and analyzed for VOCs. Groundwater samples were also collected from three existing NR141-compliant monitoring wells and analyzed for VOCs.

The soil encountered at the site included fill soil composed mostly of clay, sandy silt overlying sand, fill overlying clay and interbedded silts and sand or silts and clay. The fill thickness ranged from two to 15 feet. The sand, where encountered seemed to get coarser with depth. The color was generally tan to brown turning to grey below the water table. The water table was encountered from 14 to 20 feet bgs.

The Phase II ESA conclusions are:

- Fill soils were identified in 12 of the 15 locations with thicknesses of two to 15 feet.
- PCE and lead were identified in the soil samples above groundwater pathway residual contaminant levels (RCLs). No exceedances of the direct contact RCLs were identified.
- PAHs were detected in each soil sample tested but none of the detected analytes exceeded RCLs.
- Metals were identified in each sample tested; only lead and arsenic were detected above RCLs. The detected concentration for arsenic in each sample tested was below the background threshold value (BTV) for the State of Wisconsin, but the arsenic concentrations exceeded the non-industrial direct contact pathway, the industrial direct contact pathway and the groundwater pathway RCLs. Lead was detected only above the RCL for the groundwater pathway.
- A release associated with the identified historic site uses was not identified by direct evidence from the observations of the soil or laboratory analysis of the soil and groundwater samples.
- The groundwater contaminant plumes from the closed petroleum case and the open dry cleaner site persist under the subject property. These plumes could be a source for vapor intrusion in any redeveloped building on the subject property.

1. Introduction

AECOM Technical Services, Inc. (AECOM) conducted a Phase II Environmental Site Assessment (ESA) at 917-923 Derby Lane and 1324 South Webster Avenue, Village of Allouez, Wisconsin under the Wisconsin Assessment Monies (WAM) Contractor Services program. The purpose of the Phase II ESA was to evaluate recognized environmental conditions (RECs) identified in a Phase I ESA conducted by AECOM in July 2019.

1.1 Site Location

The subject property is located at 917-923 Derby Lane and 1324 South Webster Avenue, Village of Allouez, Brown County, Wisconsin (Figure 1); and is described as being located in part of the Northwest $\frac{1}{4}$ of the Southeast $\frac{1}{4}$ of Section 2, Township 23 North, Range 20 East. The subject property consists of three parcels totaling approximately 1.05 acres. Figure 2 depicts the site layout and locations of the off-site RECs. Figure 3 depicts the sampling locations.

Residential and commercial properties are located to the north, South Webster Avenue borders the property to the east, Derby Lane borders the property to the south, and residential dwellings are located to the west. The property is situated $\frac{1}{4}$ mile to the east of the Fox River which flows into the bay of Green Bay approximately 3.25 miles north of the subject property. The property is also located on a topographic divide with the land area to the east, sloping eastward toward, the East River. The area is urban with mixed residential and commercial properties surrounding the site.

1.2 Contact Information

The following parties are associated with this site assessment.

Property Owner

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920-660-6695

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Owner of Existing NR 141 Monitoring Wells

Lee Amundson
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2. Site Background

The subject property consists of three parcels. The largest parcel is a 0.77-acre former commercial property; the property has previously been a retail gasoline station/auto repair and later a medical facility. Two smaller parcels, totaling 0.28 acres, lie adjacent to the west of the larger parcel; the smaller parcels are former residential properties.

In 2019 AECOM Technical Services (AECOM) conducted a Phase I ESA on the three parcels combined as a single subject property. The Phase I ESA identified the following recognized environmental conditions (RECs) on the property as related to historical uses or environmental impact identified on adjacent properties on the east side of Webster Avenue and south of Derby Lane. The RECs were:

- The historical use of the property as a gasoline and automotive service station;
- The unknown quality of fill soil placed on the subject property;
- The presence of groundwater contamination from 1401 South Webster Avenue;
- A former dry cleaner located approximately 200 feet north of the subject property at 1304 South Webster Avenue; and
- A documented groundwater contaminant plume associated with 1404 South Webster Avenue (a former gasoline station which was later converted to a dry cleaner) that is located immediately adjacent to the subject property on the south side of Derby Lane.

2.1 Purpose and Scope of Work

The purpose of the Phase II ESA was to evaluate the RECs identified above to determine if the RECs had or are causing environmental impacts that present a hazard to human health or the environment.

The scope of work was developed to evaluate the RECs by sampling and analyzing soil and groundwater samples. Fourteen soil probe borings were advanced and five of the soil probe borings were completed as temporary groundwater monitoring wells. Thirty-five soil and five groundwater samples were collected and analyzed in October 2019. Groundwater samples from three existing groundwater monitoring wells were also analyzed in October 2019 as part of the Phase II ESA. Groundwater samples were collected during a second sampling event from both the temporary wells and the three existing monitoring wells.

Soil and groundwater samples were collected in the southeast corner of the subject property on the location of the former gasoline and automotive service station to determine if this prior use resulted in a petroleum release. Soil borings were advanced to evaluate if migration of chlorinated solvents and petroleum products had occurred from adjacent properties (1401 South Webster Avenue and 1404 South Webster Avenue) in the soil or groundwater. The soil samples from these borings were also used to evaluate the quality of the fill placed on the subject property. Additional soil borings were advanced on the southwestern portion of the property to assess the soil quality within the direct contact zone (zero to four feet below ground surface [bgs]). Lastly, the groundwater samples collected from the three existing wells on the property were used to further evaluate the chlorinated VOCs migrating from 1404 S Webster Avenue.

3. Methods of Assessment

Utility Clearance

AECOM contacted Digger's Hotline for the location of public utilities on the three parcels prior to commencing work.

Soil Probe Borings

Soil probe borings were completed at 14 locations, as shown on Figure 3, designated SP-101 through SP-115. The borings were advanced to 20 feet below ground surface (bgs) except for the locations completed as temporary wells which were advanced to 30 feet bgs. At the location for SP-107, the soil was too soft for rig access. Several attempts were made to move to firmer ground, but the boring would have been too close to either SP-106 or SP-109, so boring SP-107 was omitted. Soil probe borings were advanced with a hydraulic push-probe using a two-inch diameter drive rod to collect continuous soil samples inside of a polyethylene sheath inserted into the end of the drive rod. The soil samples were described in the field with respect to the soil type, grain size distribution, and color (or discoloration), odor, and moisture content. Soil samples were screened in the field with a photo-ionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. The PID was calibrated in the field according to manufacturer's instructions, using 100 parts per million (ppm) isobutylene span gas and air (zero gas). Field observations from the borings were recorded on soil boring log forms (WDNR Form 4400-122) for each sample location and are included as Appendix A. Borehole abandonment forms (WDNR Form 3300-005) are also included in Appendix A.

Temporary Wells

Five locations were completed as temporary wells; SP-105, SP-109, SP-111, SP-112 and SP-114. The temporary monitoring wells were constructed using 1-inch diameter PVC well screen and riser for groundwater access. A 10-foot slotted section with solid riser was placed from 20 to 30 feet bgs so the screened interval straddled the water table. Temporary well construction is depicted on the boring logs. The temporary monitoring wells were purged using a bailer because the transmissivity of the soil was slow and the wells were purged until the boring was dry. Groundwater samples were collected in October 2019 and January 2020 from each temporary monitoring well using a disposable bailer after the well had been purged dry one time.

Existing Groundwater Monitoring Well Sampling

AECOM collected groundwater samples at the three existing monitoring wells MW-4, MW-5, and MW-6, located on the subject property or in the right-of-way adjacent to the subject property, in October 2019 and January 2020. The depth to groundwater was measured, the monitoring wells were purged until dry, the water levels were permitted to recover, and groundwater samples were collected using a bailer. Field parameters were not measured because of the low volume of water available when sampling.

Groundwater samples were placed in pre-cleaned, laboratory-supplied sample jars. Sample labels were completed with the sample identification number, date and time of collection, analysis to be conducted, preservative, and the sampler's initials.

Laboratory Analytical Methods

A chain-of-custody (COC) form was completed after sample collection and the samples were placed in a cooler and delivered to the laboratory under standard COC procedures. Thirty-five soil samples were analyzed for the following analytes:

- Volatile Organic Compounds (VOCs) by SW-846 method 8260,
- Polycyclic Aromatic Hydrocarbons (PAHs) by SW-846 8270 SIM, and
- Resource Conservation and Recovery Act (RCRA) Metals by SW-846 6010 (ICP) and 747I for mercury.

Eight groundwater samples were analyzed twice for VOCs using SW-846 method 8260

Investigative Waste Management

Soil probe borings did not generate soil cuttings as an investigation-derived waste. Similarly, little water was generated by the temporary and NR141-compliant monitoring wells because of the low transmissivity.

4. Results

The soil laboratory analytical data were validated with reference to the USEPA National Functional Guidelines and the soil data validation memo is attached to this report. The data were considered acceptable for use and appropriate qualifications were added to the results tables. The soil duplicate results were compared, and the results were qualified as biased low where the relative percent difference was greater than 50%. However, analyte concentration variations may be due to the normal heterogeneity of soil and not necessarily indicative of analytical bias. The groundwater data was similarly validated and the results of validation are provided in the groundwater validation memo. The data were considered acceptable for use and appropriate qualifications were added to the results table.

Soil analytical results are compared to the generic Residual Contaminant Levels (RCLs) per WAC Ch. NR 720 and Background Threshold Values (BTVs) where established. Generic RCLs were those calculated by WDNR (December 2018) using the USEPA Regional Screening Level Web Calculator in accordance with WDNR Draft PUB-RR-890. The soil laboratory analytical results are presented in Table 1 which includes detected VOCs, PAHs and the eight RCRA metals. Only two analytes, tetrachloroethene (PCE) in 11 of 35 samples and lead in 3 of 30 samples, exceeded only the groundwater pathway RCL. Arsenic exceeded each of the RCLs, but the detected concentrations at each location were below the background threshold value. Therefore, arsenic is not considered a contaminant of concern. The results for the two detected analytes above RCLs are depicted in Figure 4. A copy of the laboratory analytical report is appended.

Groundwater analytical results are compared to Wisconsin Groundwater Quality standards in WAC Ch. NR 140.10. Wisconsin has two levels of groundwater quality standards. The first level, the Preventive Action Limit (PAL), is a concentration that is 10% (for carcinogenic, mutagenic or teratogenic compounds) to 20% (non-carcinogenic) of the Enforcement Standards (ES). The PAL has been established as the concentration at which notification to the WDNR is required. Remedial action is not always required if a PAL is exceeded. The ES is a health-risk based concentration and exceedances of ESs usually result in further subsurface investigation, remedial action requirements, or monitoring. The laboratory analytical results for the temporary wells are provided in Table 2. A summary table of new and historical results for the three NR141-compliant monitoring wells is provided as Table 3. PAL and/or ES exceedances were identified at each groundwater sampling location during the two groundwater sampling events and include:

Temporary wells	PAL Exceedance	ES Exceedance
Benzene	None	SP-105 (both events)
Cis-1,2-dichloroethene	SP-105 (both events)	None
Tetrachloroethene	SP-111 (both events)	SP-105 (both events) SP-109 (October 2019 only) SP-112 (both events) SP-114 (both events)
Trichloroethene	SP-111 (October 2019 only) SP-114 (both events)	SP-105 (both events)
Existing Monitoring Wells	PAL	ES
Benzene	MW-5 (both events)	MW-6 (both events)
Cis-1,2-dichloroethene	MW-6 (both events)	MW-5 (both events)

Existing Monitoring Wells	PAL	ES
Trans-1,2-dichloroethene	MW-6 (January 2020 only)	MW-6 (October 2019 only)
Naphthalene	MW-5 (both events) MW-6 (October 2019 only)	None
Tetrachloroethene	MW-5 (both events)	MW-4 (both events) MW-6 (both events)
Trichloroethene	MW-4 (both events)	MW-6 (both events)
Total Trimethylbenzenes	None	MW-5 (both events)
Total Xylenes	MW-5 (October 2019 only)	None

The exceedances are depicted in Figure 5. Copies of the laboratory analytical reports are appended.

The soil and groundwater results are discussed below by REC.

4.1 Hydrogeologic Setting

Published geologic and hydrogeologic information was reviewed to assess soil and bedrock types in the area, regional groundwater flow direction, and groundwater sources. The 7.5-minute topographic maps of the De Pere, Wisconsin quadrangle (USGS, 2013) shows the area topography and surface water features in and around the property (Figure 1). The area around the property is relatively flat with an approximate elevation of approximately 636 feet above mean sea level (MSL).

The USDA Soil Conservation Service Web Soil Survey of Marinette County, Wisconsin, has mapped the area of the subject property as Kewaunee silty loam.

The soil encountered at the site included fill soil composed mostly of clay, sandy silt overlying sand, fill overlying clay and interbedded silts and sand or silts and clay. The fill thickness ranged from two to 15 feet. The sand, where encountered seemed to get coarser with depth. The color was generally tan to brown turning to grey below the water table. The water table was encountered from 14 to 20 feet bgs. An odor was noted in SP-105 in the 20-22 foot soil interval and stained soil with an odor were observed at 27.5 feet bgs at location SP-113.

4.2 Data Evaluation by REC

The historical use of the property as a gasoline and automotive service station

Sample locations SP-101, SP-102, SP-103, and SP-115 were used to evaluate the historical gasoline station use of the southeast corner of the property. Petroleum impacts to the soil were not identified by lab analysis in these borings, but dark stained soil with an odor was identified below the apparent water table at 27.5 bgs. PCE was detected in the shallow (0.5-1.5-foot bgs) sample at SP-102. In SP-101, SP-103 and SP-115 PCE was detected in one or both of the deeper samples at each location. The PCE is indicative of impact associated with a dry cleaner and is not a compound generally associated with a gasoline or automotive service station.

The groundwater samples from the three NR141-compliant groundwater monitoring well are within the vicinity of the former gasoline/automotive service station. PCE and trichloroethene (TCE), both associated with dry cleaning fluids, were present above the ES and PAL (respectively) in the groundwater sample from MW-4. Petroleum VOCs (benzene, naphthalene, trimethylbenzenes and xylenes) were identified in the groundwater samples from MW-5 and MW-6 and are likely associated with the plume from the previously closed gas station off-site. The concentration trend for total trimethylbenzenes in

MW-5 appear to be increasing. PCE and breakdown compounds were also identified in the groundwater samples from MW-5 and MW-6. The PCE concentrations in both wells appear to have decreasing trends.

The unknown quality of fill soil placed on the subject property

Sample locations SP-104 through SP-114 were used to evaluate the quality of the fill soils or soil remaining after the prior buildings were razed. None of the tested analytes were detected at concentrations above the direct contact RCLs (either non-industrial or industrial. Only lead and PCE were detected in some of the samples above the groundwater pathway RCL as depicted on Figure 4. PAHs and other metals were detected, but the detected concentrations did not exceed RCLs. The quality of the fill is generally acceptable for redevelopment.

The presence of groundwater contamination from 1401 South Webster Avenue

The evaluation of the dry cleaner sites and the groundwater plume from 1404 S Webster was evaluated with the collection of groundwater samples at the three existing wells (MW-4, MW-5, and MW-6 and the temporary wells identified as SP-105, SP-109, SP-111, SP-112, and SP-114. Petroleum VOCs (benzene, naphthalene, trimethylbenzenes, and xylenes were identified in the groundwater samples from MW-5 and MW-6 and are likely associated with the plume from the previously closed gas station off-site. The concentration trend for total trimethylbenzenes in MW-5 appear to be increasing. Benzene was identified in the groundwater sample from SP-105. The detected concentrations exceed either the PAL or the ES. The contaminant plume is present under the eastern portion of the subject property.

A former dry cleaner located approximately 200 feet north of the subject property at 1304 South Webster Avenue

Although PCE was detected in deeper soil samples at SP-105 and SP-106, the distance to this former dry cleaner is approximately 200 feet and the impact does not appear to be related.

A documented groundwater contaminant plume associated with 1404 South Webster Avenue

PCE and associated lesser-chlorinated breakdown compounds were identified in the three NR141-compliant groundwater monitoring wells above the PAL and/or ES. Table 3 includes 2017 and 2018 groundwater data for the compounds detected during this sample event and the current concentrations are consistent with prior data which depicts a somewhat stable contaminant plume, except for PCE in MW-4 which appears to have a slight increasing trend. Additionally, PCE was identified above the ES in the groundwater samples from each of the temporary wells (in both sample events except for SP-111 where the concentration only exceeded the PAL in just the October 2019 event.

5. Conclusions

The Phase II ESA conclusions are:

- Fill soils were identified in 12 of the 15 locations with thicknesses of two to 15 feet.
- PCE and lead were identified in the soil samples above groundwater pathway RCLs. No exceedances of the direct contact RCLs were identified.
- PAHs were detected in each soil sample tested but none of the detected analytes exceeded RCLs.
- Metals were identified in each sample tested; only lead and arsenic were detected above RCLs. The detected concentration for arsenic in each sample tested was below the BTV for the State of Wisconsin, but the arsenic concentrations exceeded the non-industrial direct contact pathway, the industrial direct contact pathway and the groundwater pathway RCLs. Lead was detected only above the RCL for the groundwater pathway.
- A release associated with the identified historic site uses was not identified by direct evidence from the observations of the soil or laboratory analysis of the soil and groundwater samples.

- The groundwater contaminant plumes from the closed petroleum case and the open dry cleaner site persist under the subject property. These plumes could be a source for vapor intrusion in any redeveloped building on the subject property.

6. General Qualifications

The purpose of this environmental assessment is to investigate possible soil and/or groundwater impacts, and related liabilities, associated with past and current property uses. The extent of the investigation is limited to the area and location described in this report.

AECOM has prepared this report at the request of its client. AECOM assumes responsibility for the accuracy of the report's content, subject to what is stated elsewhere in this section. AECOM recommends the report be used only for the purpose intended by the client and AECOM, as stated in the report. AECOM disclaims responsibility for the application or interpretation of the results by anyone other than the client. Reliance on the contents of this report by anyone other than the client, without the prior expressed written consent of AECOM, is done at the sole risk of the user.

The results, conclusions, and recommendations presented in this report are based on the data obtained from a limited number of soil boring locations and at the soil sample and groundwater sample locations as indicated in this report. Variations in conditions can occur between these boring, soil sample, and groundwater sample locations. In addition, seasonal and annual fluctuations of the groundwater table, which may influence the distribution of contaminants, can occur. Actual groundwater flow rates may vary from those estimated in this report based on soil conditions.

This report has been prepared in conformance with the care and skill ordinarily exercised by reputable members of the professional engineering community practicing under similar conditions at the same time in the same or similar locality. No other warranty of any kind, expressed or implied, at common law or created by statute, is extended, made, or intended.

TABLES

Table 1
Analytes Detected in Soil Samples
Allouez Phase II

Parameters	Generic RCLs			SP-101			SP-102			SP-103		
	Direct Contact Pathway		Groundwater Pathway	0.5 - 1.5 ft	8 - 10 ft	18 - 20 ft	0.5 - 1.5 ft	19 - 20 ft	19 - 20 ft	0.5 - 1.5 ft	12 - 14 ft	18 - 20 ft
	Non-Industrial	Industrial		SP-101-0.5-1.5	SP-101-8-10	SP-101-18-20	SP-102-0.5-1.5	SP-102-19-20	SP-102-19-20D	SP-103-0.5-1.5	SP-103-12-14	SP-103-18-20
				10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019
Detected VOCs (µg/kg)												
1,2,4-Trimethylbenzene	219000	219000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
1,3,5-Trimethylbenzene	182000	182000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Ethylbenzene	8020	35400	1570	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Isopropylbenzene (Cumene)	268000	268000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
m,p-Xylenes	--	--	--	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Naphthalene	5520	24100	658.2	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0
n-Butylbenzene	108000	108000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
n-Propylbenzene	264000	264000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Tetrachloroethene	33000	145000	4.5	< 25.0	57.0^{J C}	32.6^{J C}	59.5^{J C}	< 25.0	< 25.0	< 25.0	< 25.0	277^C
Xylene (Total)	260000	260000	3960	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0
PAHs (µg/kg)												
1-Methylnaphthalene	17600	72700	--	< 3.0	< 2.9	nt	6.7 ^J	< 2.7	< 2.7	< 2.9	< 2.8	nt
2-Methylnaphthalene	239000	3010000	--	< 3.0	< 2.9	nt	8.5 ^J	< 2.7	< 2.7	< 2.9	< 2.8	nt
Acenaphthene	3590000	45200000	--	3.0 ^J	< 2.5	nt	< 2.7	< 2.4	< 2.4	< 2.6	< 2.5	nt
Acenaphthylene	--	--	--	< 2.6	< 2.5	nt	7.7 ^J	< 2.4	< 2.4	< 2.5	< 2.4	nt
Anthracene	17900000	100000000	196949.2	9.8 ^J	< 2.4	nt	6.6 ^J	< 2.3	< 2.3	< 2.5	< 2.4	nt
Benzo(a)anthracene	1140	20800	--	40	< 2.5	nt	17.3 ^J	2.6 ^J	< 2.4	4.3 ^J	< 2.5	nt
Benzo(a)pyrene	115	2110	470	64.8	< 2.2	nt	23.3	< 2.1	< 2.1	3.4 ^J	< 2.2	nt
Benzo(b)fluoranthene	1150	21100	478.1	64.5	< 2.7	nt	43.0	< 2.6	< 2.6	5.0 ^J	< 2.6	nt
Benzo(g,h,i)perylene	--	--	--	44.3	< 3.4	nt	23.1	< 3.3	< 3.3	3.7 ^J	< 3.3	nt
Benzo(k)fluoranthene	11500	211000	--	29.2	< 2.5	nt	14.3 ^J	< 2.4	< 2.4	2.8 ^J	< 2.4	nt
Chrysene	115000	2110000	144.2	48.1	< 3.7	nt	27.5	< 3.5	< 3.5	4.5 ^J	< 3.6	nt
Dibenzo(a,h)anthracene	115	2110	--	9.6 ^J	< 2.7	nt	6.2 ^J	< 2.6	< 2.6	< 2.8	< 2.6	nt
Fluoranthene	2390000	30100000	88877.8	112	< 2.3	nt	33.5	< 2.2	< 2.2	5.9 ^J	< 2.3	nt
Fluorene	2390000	30100000	14829.9	2.6 ^J	< 2.3	nt	< 2.5	< 2.2	< 2.2	< 2.4	< 2.3	nt
Indeno(1,2,3-cd)pyrene	1150	21100	--	34.8	< 4.1	nt	19.3 ^J	< 3.9	< 3.9	< 4.2	< 4.0	nt
Naphthalene	5520	24100	658.2	3.2 ^J	< 1.9	nt	10 ^J	2.0 ^J	2.2 ^J	< 2.0	< 1.9	nt
Phenanthrene	--	--	--	51.8	< 2.2	nt	16.9 ^J	< 2.1	< 2.1	< 2.3	< 2.2	nt
Pyrene	1790000	22600000	54545.5	78	< 2.9	nt	26.6	< 2.8	< 2.7	4.2 ^J	< 2.8	nt

**Table 1
Analytes Detected in Soil Samples
Allouez Phase II**

Parameters	Generic RCLs			SP-101			SP-102			SP-103		
	Direct Contact Pathway		Groundwater Pathway	0.5 - 1.5 ft	8 - 10 ft	18 - 20 ft	0.5 - 1.5 ft	19 - 20 ft	19 - 20 ft	0.5 - 1.5 ft	12 - 14 ft	18 - 20 ft
	Non-Industrial	Industrial		SP-101-0.5-1.5	SP-101-8-10	SP-101-18-20	SP-102-0.5-1.5	SP-102-19-20	SP-102-19-20D	SP-103-0.5-1.5	SP-103-12-14	SP-103-18-20
			10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	
Metals (mg/kg)												
Arsenic	0.677	3	0.584	3.3 ^{J ABC}	2.2 ^{J AC}	nt	2.9 ^{J AC}	2.0 ^{J AC}	1.6 ^{J AC}	2.1 ^{J AC}	3.9 ^{J ABC}	nt
Barium	15300	100000	164.8	50.5	36.6	nt	111	6.8	6.8	73.3	55.3	nt
Cadmium	71.1	985	0.752	0.36 ^J	< 0.15	nt	0.20 ^J	< 0.14	< 0.14	0.17 ^J	< 0.15	nt
Chromium	--	--	360000	15.4	14.5	nt	33.3	5.0	4.3	27.8	21.0	nt
Lead	400	800	27	39.1 ^C	3.7	nt	11.2	1.3 ^J	1.0 ^J	23.3	4.1	nt
Mercury	3.13	3.13	0.208	0.039 ^J	< 0.011	nt	0.018 ^J	< 0.011	< 0.011	0.015 ^J	< 0.012	nt
Silver	391	5840	0.8491	< 0.36	< 0.35	nt	< 0.72	< 0.32	< 0.32	< 0.71	< 0.70	nt

Notes:

PAHs = Polynuclear Aromatic Hydrocarbons

VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram.

mg/kg = Micrograms per kilogram.

^J = Estimated value (+/- indicate bias).

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact (none).

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs Dec 2018 per WDNR PUB-RR-890.

-- = No generic RCL established. nt = not tested

non-detect VOC results were reported on a wet weight basis.

Table 1
Analytes Detected in Soil Samples
Allouez Phase II

Parameters	Generic RCLs			SP-104		SP-105			SP-106		
	Direct Contact Pathway		Groundwater Pathway	0.5 - 1.5 ft	18 - 19 ft	0.5 - 1.5 ft	20 - 21 ft	26 - 27 ft	0.5 - 1.5 ft	10 - 12 ft	18 - 19 ft
	Non-Industrial	Industrial		SP-104-0.5-1.5	SP-104-18-19	SP-105-0.5-1.5	SP-105-20-21	SP-105-26-27	SP-106-0.5-1.5	SP-106-10-12	SP-106-18-19
				10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019
Detected VOCs (µg/kg)											
1,2,4-Trimethylbenzene	219000	219000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
1,3,5-Trimethylbenzene	182000	182000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Ethylbenzene	8020	35400	1570	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Isopropylbenzene (Cumene)	268000	268000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
m,p-Xylenes	--	--	--	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Naphthalene	5520	24100	658.2	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0
n-Butylbenzene	108000	108000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
n-Propylbenzene	264000	264000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Tetrachloroethene	33000	145000	4.5	30.1^{J C}	63.7^C	< 25.0	< 25.0	69.5^{J C}	< 25.0	64.9^C	59.4^{J C}
Xylene (Total)	260000	260000	3960	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0
PAHs (µg/kg)											
1-Methylnaphthalene	17600	72700	--	< 2.9	< 2.5	< 2.9	< 2.9	nt	< 2.9	< 2.5	nt
2-Methylnaphthalene	239000	3010000	--	< 2.9	< 2.5	< 2.9	< 2.9	nt	< 2.9	< 2.5	nt
Acenaphthene	3590000	45200000	--	< 2.6	< 2.3	< 2.6	< 2.6	nt	< 2.6	< 2.2	nt
Acenaphthylene	--	--	--	< 2.5	< 2.2	< 2.5	< 2.5	nt	< 2.5	< 2.1	nt
Anthracene	17900000	100000000	196949.2	< 2.5	< 2.2	< 2.5	< 2.5	nt	< 2.5	< 2.1	nt
Benzo(a)anthracene	1140	20800	--	6.9^J	< 2.2	< 2.6	< 2.6	nt	< 2.6	< 2.2	nt
Benzo(a)pyrene	115	2110	470	15.2^J	< 2.0	< 2.3	< 2.3	nt	< 2.3	< 1.9	nt
Benzo(b)fluoranthene	1150	21100	478.1	12.3^J	< 2.4	< 2.8	< 2.8	nt	< 2.8	< 2.4	nt
Benzo(g,h,i)perylene	--	--	--	12.0^J	< 3.0	< 3.5	< 3.5	nt	< 3.5	< 3.0	nt
Benzo(k)fluoranthene	11500	211000	--	5.4^J	< 2.2	< 2.6	< 2.5	nt	< 2.5	< 2.2	nt
Chrysene	115000	2110000	144.2	9.4^J	< 3.3	< 3.8	< 3.8	nt	< 3.7	< 3.2	nt
Dibenzo(a,h)anthracene	115	2110	--	4.2^J	< 2.4	< 2.8	< 2.8	nt	< 2.7	< 2.4	nt
Fluoranthene	2390000	30100000	88877.8	6.6^J	< 2.1	< 2.4	< 2.4	nt	< 2.3	< 2.0	nt
Fluorene	2390000	30100000	14829.9	< 2.4	< 2.1	< 2.4	< 2.4	nt	< 2.4	< 2.0	nt
Indeno(1,2,3-cd)pyrene	1150	21100	--	6.8^J	< 3.6	< 4.2	< 4.1	nt	< 4.1	< 3.5	nt
Naphthalene	5520	24100	658.2	< 1.9	< 1.7	< 2.0	< 1.9	nt	2.1^J	< 1.7	nt
Phenanthrene	--	--	--	< 2.3	< 2.0	< 2.3	< 2.3	nt	< 2.3	< 1.9	nt
Pyrene	1790000	22600000	54545.5	8.3^J	< 2.6	< 2.9	< 2.9	nt	< 2.9	< 2.5	nt

**Table 1
Analytes Detected in Soil Samples
Allouez Phase II**

Parameters	Generic RCLs			SP-104		SP-105			SP-106		
	Direct Contact Pathway		Groundwater Pathway	0.5 - 1.5 ft	18 - 19 ft	0.5 - 1.5 ft	20 - 21 ft	26 - 27 ft	0.5 - 1.5 ft	10 - 12 ft	18 - 19 ft
	Non-Industrial	Industrial		SP-104-0.5-1.5	SP-104-18-19	SP-105-0.5-1.5	SP-105-20-21	SP-105-26-27	SP-106-0.5-1.5	SP-106-10-12	SP-106-18-19
			10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019
Metals (mg/kg)											
Arsenic	0.677	3	0.584	3.2^{J ABC}	< 2.9	2.1^{J AC}	3.4^{J ABC}	nt	2.7^{J AC}	< 7.1	nt
Barium	15300	100000	164.8	63.7	6.4	110	6.2	nt	47.8	5.9	nt
Cadmium	71.1	985	0.752	< 0.16	< 0.13	0.17 ^J	< 0.15	nt	< 0.15	< 0.13	nt
Chromium	--	--	360000	20.4	4.8	35.9	3.5	nt	18.4	5.2	nt
Lead	400	800	27	5.0	1.0 ^J	9.1	0.72 ^J	nt	8.6	0.99 ^J	nt
Mercury	3.13	3.13	0.208	0.013 ^J	< 0.011	0.022 ^J	< 0.011	nt	0.015 ^J	0.012 ^J	nt
Silver	391	5840	0.8491	< 0.73	< 0.30	< 0.74	< 0.36	nt	< 0.35	< 0.30	nt

Notes:

PAHs = Polynuclear Aromatic Hydrocarbons

VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram.

mg/kg = Micrograms per kilogram.

^J = Estimated value (+/- indicate bias).

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact (none).

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs Dec 2018 per WDNR PUB-RR-890.

-- = No generic RCL established. nt = not tested

non-detect VOC results were reported on a wet weight basis.

Table 1
Analytes Detected in Soil Samples
Allouez Phase II

Parameters	Generic RCLs			SP-108			SP-109		SP-110		SP-111	
	Direct Contact Pathway		Groundwater Pathway	0.5 - 1.5 ft	19 - 20 ft	19 - 20 ft	0.5 - 1.5 ft	18 - 19 ft	0.5 - 1.5 ft	18 - 19 ft	0.5 - 1.5 ft	21 - 22 ft
	Non-Industrial	Industrial		SP-108-0.5-1.5	SP-108-19-20	SP-108-19-20D	SP-109-0.5-1.5	SP-109-18-19	SP-110-0.5-1.5	SP-110-18-19	SP-111-0.5-1.5	SP-111-21-22
				10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019
Detected VOCs (µg/kg)												
1,2,4-Trimethylbenzene	219000	219000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
1,3,5-Trimethylbenzene	182000	182000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Ethylbenzene	8020	35400	1570	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Isopropylbenzene (Cumene)	268000	268000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
m,p-Xylenes	--	--	--	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Naphthalene	5520	24100	658.2	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0
n-Butylbenzene	108000	108000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
n-Propylbenzene	264000	264000	--	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Tetrachloroethene	33000	145000	4.5	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
Xylene (Total)	260000	260000	3960	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0
PAHs (µg/kg)												
1-Methylnaphthalene	17600	72700	--	11.4 ^J	< 2.9	< 2.9	< 2.8	< 2.9	< 2.9	< 2.9	< 2.8	4.5 ^J
2-Methylnaphthalene	239000	3010000	--	14.6 ^J	< 3.0	< 2.9	4.1 ^J	< 2.9	< 2.9	< 2.9	< 2.8	8.0 ^J
Acenaphthene	3590000	45200000	--	< 2.6	< 2.6	< 2.6	< 2.5	< 2.6	< 2.6	< 2.6	< 2.5	< 2.6
Acenaphthylene	--	--	--	< 2.5	< 2.5	< 2.5	< 2.4	< 2.5	< 2.5	< 2.5	< 2.4	< 2.5
Anthracene	17900000	100000000	196949.2	3.2 ^J	< 2.5	< 2.5	< 2.4	< 2.5	< 2.5	< 2.5	< 2.4	< 2.4
Benzo(a)anthracene	1140	20800	--	7.8 ^J	< 2.6	< 2.6	4.0 ^J	< 2.6	2.7 ^J	< 2.6	2.9 ^J	< 2.5
Benzo(a)pyrene	115	2110	470	7.9 ^J	< 2.3	< 2.3	3.0 ^J	< 2.3	< 2.3	< 2.3	< 2.2	< 2.2
Benzo(b)fluoranthene	1150	21100	478.1	12.8 ^J	< 2.8	< 2.8	5.6 ^J	< 2.8	< 2.8	< 2.8	< 2.6	< 2.7
Benzo(g,h,i)perylene	--	--	--	6.9 ^J	< 3.5	< 3.5	< 3.4	< 3.5	< 3.5	< 3.5	< 3.3	< 3.5
Benzo(k)fluoranthene	11500	211000	--	4.7 ^J	< 2.6	< 2.6	< 2.5	< 2.6	< 2.6	< 2.6	< 2.4	< 2.5
Chrysene	115000	2110000	144.2	10.4 ^J	< 3.8	< 3.8	5.1 ^J	< 3.8	< 3.8	< 3.8	< 3.6	< 3.7
Dibenzo(a,h)anthracene	115	2110	--	< 2.8	< 2.8	< 2.8	< 2.7	< 2.8	< 2.8	< 2.8	< 2.6	< 2.7
Fluoranthene	2390000	30100000	88877.8	14.7 ^J	< 2.4	< 2.4	5.2 ^J	< 2.4	2.4 ^J	< 2.4	2.4 ^J	< 2.3
Fluorene	2390000	30100000	14829.9	< 2.4	< 2.4	< 2.4	< 2.3	< 2.4	< 2.4	< 2.4	< 2.3	< 2.4
Indeno(1,2,3-cd)pyrene	1150	21100	--	5.1 ^J	< 4.2	< 4.2	< 4.0	< 4.2	< 4.2	< 4.2	< 4.0	< 4.1
Naphthalene	5520	24100	658.2	8.3 ^J	< 2.0	2.9 ^J	3.9 ^J	< 1.9	< 2.0	< 2.0	< 1.8	6.1 ^J
Phenanthrene	--	--	--	10.9 ^J	< 2.3	< 2.3	5.0 ^J	< 2.3	< 2.3	< 2.3	< 2.2	< 2.3
Pyrene	1790000	22600000	54545.5	11.1 ^J	< 3.0	< 2.9	4.3 ^J	< 2.9	< 3.0	< 3.0	< 2.8	< 2.9

Table 1
Analytes Detected in Soil Samples
Allouez Phase II

Parameters	Generic RCLs			SP-108			SP-109		SP-110		SP-111	
	Direct Contact Pathway		Groundwater Pathway	0.5 - 1.5 ft	19 - 20 ft	19 - 20 ft	0.5 - 1.5 ft	18 - 19 ft	0.5 - 1.5 ft	18 - 19 ft	0.5 - 1.5 ft	21 - 22 ft
	Non-Industrial	Industrial		SP-108-0.5-1.5	SP-108-19-20	SP-108-19-20D	SP-109-0.5-1.5	SP-109-18-19	SP-110-0.5-1.5	SP-110-18-19	SP-111-0.5-1.5	SP-111-21-22
Metals (mg/kg)												
Arsenic	0.677	3	0.584	< 3.4	4.7^{J ABC}	3.3^{J ABC}	< 3.4	3.3^{J ABC}	< 3.3	3.3^{J ABC}	4.1^{J ABC}	1.9^{J AC}
Barium	15300	100000	164.8	93.2	15.6	22.8	67.7	6.7	97.1	38.5	61.6	7.5
Cadmium	71.1	985	0.752	< 0.31	< 0.16	< 0.15	< 0.31	< 0.15	< 0.30	0.16 ^J	0.24 ^J	< 0.15
Chromium	--	--	360000	29.2	6.7	10.7	31.8	3.9	30.5	26.5	17.8	4.6
Lead	400	800	27	78.9^C	1.9 ^J	1.9 ^J	6.3	0.85 ^J	8.4	3.4	183^C	1.5 ^J
Mercury	3.13	3.13	0.208	0.035 ^J	0.020 ^J	0.018 ^J	0.048	< 0.011	0.040	0.020 ^J	0.028 ^J	< 0.012
Silver	391	5840	0.8491	< 0.71	< 0.36	< 0.34	0.77 ^J	< 0.34	< 0.69	< 0.37	0.75 ^J	< 0.35

Notes:

PAHs = Polynuclear Aromatic Hydrocarbons

VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram.

mg/kg = Micrograms per kilogram.

^J = Estimated value (+/- indicate bias).

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact (none).

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs Dec 2018 per WDNR PUB-RR-890.

-- = No generic RCL established. nt = not tested

non-detect VOC results were reported on a wet weight basis.

Table 1
Analytes Detected in Soil Samples
Allouez Phase II

Parameters	Generic RCLs			SP-112		SP-113		SP-114		SP-115		
	Direct Contact Pathway		Groundwater Pathway	0.5 - 1.5 ft	21 - 22 ft	0.5 - 1.5 ft	22 - 23 ft	0.5 - 1.5 ft	21 - 22 ft	0.5 - 1.5 ft	10 - 12 ft	18 - 20 ft
	Non-Industrial	Industrial		SP-112-0.5-1.5	SP-112-21-22	SP-113-0.5-1.5	SP-113-22-23	SP-114-0.5-1.5	SP-114-21-22	SP-115-0.5-1.5	SP-115-10-12	SP-115-18-20
				10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/24/2019	10/24/2019	10/24/2019
Detected VOCs (µg/kg)												
1,2,4-Trimethylbenzene	219000	219000	--	< 25.0	< 25.0	< 25.0	630	< 25.0	< 25.0	< 25.0	< 25.5	< 25.0
1,3,5-Trimethylbenzene	182000	182000	--	< 25.0	< 25.0	< 25.0	48.4 ^J	< 25.0	< 25.0	< 25.0	< 25.5	< 25.0
Ethylbenzene	8020	35400	1570	< 25.0	< 25.0	< 25.0	44.4 ^J	< 25.0	< 25.0	< 25.0	< 25.5	< 25.0
Isopropylbenzene (Cumene)	268000	268000	--	< 25.0	< 25.0	< 25.0	32.9 ^J	< 25.0	< 25.0	< 25.0	< 25.5	< 25.0
m,p-Xylenes	--	--	--	< 50.0	< 50.0	< 50.0	111 ^J	< 50.0	< 50.0	< 50.0	< 51.0	< 50.0
Naphthalene	5520	24100	658.2	< 40.0	< 40.0	< 40.0	106 ^J	< 40.0	< 40.0	< 40.0	< 40.9	< 40.0
n-Butylbenzene	108000	108000	--	< 25.0	< 25.0	< 25.0	49.9 ^J	< 25.0	< 25.0	< 25.0	< 25.5	< 25.0
n-Propylbenzene	264000	264000	--	< 25.0	< 25.0	< 25.0	96.1	< 25.0	< 25.0	< 25.0	< 25.5	< 25.0
Tetrachloroethene	33000	145000	4.5	< 25.0	77.4 ^C	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	169 ^C	368 ^C
Xylene (Total)	260000	260000	3960	< 75.0	< 75.0	< 75.0	124 ^J	< 75.0	< 75.0	< 75.0	< 76.5	< 75.0
PAHs (µg/kg)												
1-Methylnaphthalene	17600	72700	--	232	< 2.8	< 2.8	21.9	< 3.1	< 2.9	< 2.9	< 2.6	nt
2-Methylnaphthalene	239000	3010000	--	339	< 2.8	< 2.8	7.0 ^J	< 3.1	< 2.9	< 2.9	< 2.6	nt
Acenaphthene	3590000	45200000	--	4.4 ^J	< 2.5	< 2.5	< 2.4	< 2.8	< 2.6	3.4 ^J	< 2.3	nt
Acenaphthylene	--	--	--	3.2 ^J	< 2.4	< 2.4	< 2.4	< 2.7	< 2.5	< 2.5	< 2.2	nt
Anthracene	17900000	100000000	196949.2	7.9 ^J	< 2.4	< 2.4	< 2.3	< 2.6	< 2.4	10.3 ^J	< 2.2	nt
Benzo(a)anthracene	1140	20800	--	14.0 ^J	< 2.5	< 2.5	< 2.4	< 2.7	< 2.6	61.4	< 2.3	nt
Benzo(a)pyrene	115	2110	470	9.0 ^J	< 2.2	< 2.2	< 2.1	< 2.4	< 2.2	92.7	< 2.0	nt
Benzo(b)fluoranthene	1150	21100	478.1	14.7 ^J	< 2.7	< 2.7	< 2.6	< 2.9	< 2.7	142	< 2.4	nt
Benzo(g,h,i)perylene	--	--	--	12.3 ^J	< 3.4	< 3.4	< 3.3	< 3.7	< 3.5	88.8	< 3.1	nt
Benzo(k)fluoranthene	11500	211000	--	3.6 ^J	< 2.5	< 2.5	< 2.4	< 2.7	< 2.5	54.6	< 2.2	nt
Chrysene	115000	2110000	144.2	19.3 ^J	< 3.6	< 3.7	< 3.6	< 4.0	< 3.7	103	< 3.3	nt
Dibenzo(a,h)anthracene	115	2110	--	< 2.8	< 2.7	< 2.7	< 2.6	< 2.9	< 2.7	19.8 ^J	< 2.4	nt
Fluoranthene	2390000	30100000	88877.8	14.5 ^J	< 2.3	< 2.3	< 2.2	< 2.5	< 2.3	206	< 2.1	nt
Fluorene	2390000	30100000	14829.9	8.2 ^J	< 2.3	< 2.3	< 2.3	< 2.5	< 2.4	3.7 ^J	< 2.1	nt
Indeno(1,2,3-cd)pyrene	1150	21100	--	4.8 ^J	< 4.0	< 4.0	< 3.9	< 4.4	< 4.1	69.6	< 3.6	nt
Naphthalene	5520	24100	658.2	334	< 1.9	< 1.9	37.6	< 2.1	< 1.9	2.7 ^J	< 1.7	nt
Phenanthrene	--	--	--	120	< 2.2	< 2.2	< 2.2	< 2.4	< 2.3	81.5	< 2.0	nt
Pyrene	1790000	22600000	54545.5	14.9 ^J	< 2.8	< 2.8	< 2.8	< 3.1	< 2.9	140	< 2.6	nt

Table 1
Analytes Detected in Soil Samples
Allouez Phase II

Parameters	Generic RCLs			SP-112		SP-113		SP-114		SP-115		
	Direct Contact Pathway		Groundwater Pathway	0.5 - 1.5 ft	21 - 22 ft	0.5 - 1.5 ft	22 - 23 ft	0.5 - 1.5 ft	21 - 22 ft	0.5 - 1.5 ft	10 - 12 ft	18 - 20 ft
	Non-Industrial	Industrial		SP-112-0.5-1.5	SP-112-21-22	SP-113-0.5-1.5	SP-113-22-23	SP-114-0.5-1.5	SP-114-21-22	SP-115-0.5-1.5	SP-115-10-12	SP-115-18-20
				10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/25/2019	10/24/2019	10/24/2019	10/24/2019
Metals (mg/kg)												
Arsenic	0.677	3	0.584	< 1.7	1.7 ^{J AAC}	1.8 ^{J AC}	< 7.7	2.5 ^{J AC}	1.9 ^{J AC}	1.9 ^{J AC}	2.4 ^{J AC}	nt
Barium	15300	100000	164.8	85.2	11.0	83.7	10.2	77.9	5.9	43.6	7.3	nt
Cadmium	71.1	985	0.752	< 0.15	< 0.15	0.16 ^J	< 0.14	< 0.17	< 0.15	< 0.15	< 0.13	nt
Chromium	--	--	360000	38.9	5.9	27.8	8.3	29.7	4.0	18.1	5.2	nt
Lead	400	800	27	10.3	1.0 ^J	6.2	1.6 ^J	7.4	0.88 ^J	11.6	2.3	nt
Mercury	3.13	3.13	0.208	0.033 ^J	< 0.012	< 0.011	< 0.012	0.014 ^J	< 0.011	0.013 ^J	< 0.010	nt
Silver	391	5840	0.8491	< 0.70	< 0.34	< 0.67	< 0.32	< 0.39	< 0.35	< 0.68	< 0.31	nt

Notes:

PAHs = Polynuclear Aromatic Hydrocarbons

VOCs = Volatile Organic Compounds

ug/kg = Micrograms per kilogram.

mg/kg = Micrograms per kilogram.

^J = Estimated value (+/- indicate bias).

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact (none).

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

Generic RCLs Dec 2018 per WDNR PUB-RR-890.

-- = No generic RCL established. nt = not tested

non-detect VOC results were reported on a wet weight basis.

Table 2
Detected Volatile Organic Compounds in Groundwater Samples
Allouez Phase II ESA

Well Location	Sample Date	Benzene (ug/L)	Bromo dichloro methane (ug/L)	cis-1,2-Dichloro ethene (ug/L)	trans-1,2-Dichloro ethene (ug/L)	Ethyl benzene (ug/L)	Isopropyl benzene (ug/L)	Naphthalene (ug/L)	n-Propyl benzene (ug/L)	Tetrachloro ethene (ug/L)	Toluene (ug/L)	Trichloro ethene (ug/L)	1,2,4-Trimethyl benzene ¹ (ug/L)	1,3,5-Trimethyl benzene ¹ (ug/L)	m,p-Xylenes ² (ug/L)	o-Xylenes ² (ug/L)	Xylene Totals (ug/L)
SP-105	10/31/19	16.1	<0.36	<u>25.8</u>	12.9	10.5	1.9 ^J	1.8 ^J	0.95 ^J	87.3	19.7	9	15.3	2.0 ^J	55.3	5.9	61.3
	1/30/20	30.1	<0.36	<u>26.8</u>	13.9	2.6	15.2	<1.2	4.9 ^J	92.6	18.3	10.5	<0.84	<0.87	0.97 ^J	10.5	11.5
SP-109	10/31/2019	<0.25	<0.36	<0.27	<1.1	<0.22	<0.39	<1.2	<0.81	5	0.42 ^J	<0.26	<0.84	<0.87	<0.47	<0.26	<1.5
	1/30/20	<0.25	<0.36	<0.27	<1.1	<0.22	<0.39	<1.2	<0.81	<0.33	<0.17	<0.26	<0.84	<0.87	<0.47	<0.26	<1.5
SP-111	10/31/2019	0.36 ^J	<0.36	<0.27	<1.1	<0.22	<0.39	<1.2	<0.81	<u>2.9</u>	0.92 ^J	<u>0.73^J</u>	<0.84	<0.87	<0.47	<0.26	<1.5
	1/30/20	<0.25	<0.36	<0.27	<1.1	<0.22	<0.39	<1.2	<0.81	<u>3.2</u>	0.31 ^J	<0.26	<0.84	<0.87	<0.47	<0.26	<1.5
SP-112	10/31/19	<0.25	<0.36	<0.27	<1.1	<0.22	<0.39	<1.2	<0.81	33.3	<0.17	<0.26	<0.84	<0.87	<0.47	<0.26	<1.5
	1/30/20	<0.25	<0.36	<0.27	<1.1	<0.22	<0.39	<1.2	<0.81	39.9	<0.17	<0.26	<0.84	<0.87	<0.47	<0.26	<1.5
DUP SP-112	10/31/2019	<0.25	<0.36	<0.27	<1.1	<0.22	<0.39	<1.2	<0.81	43.6	0.28 ^J	<0.26	<0.84	<0.87	<0.47	<0.26	<1.5
SP-114	10/31/19	0.28 ^J	<u>0.41^J</u>	1.7	<1.1	<0.22	<0.39	<1.2	<0.81	25	<0.17	<u>2.8</u>	<0.84	<0.87	<0.47	<0.26	<1.5
	1/30/20	0.57 ^J	<0.36	1.4	<1.1	<0.22	<0.39	<1.2	<0.81	27.2	<0.17	<u>3</u>	<0.84	<0.87	<0.47	<0.26	<1.5
PAL ^A		0.5	0.06	7	20	140	NE	10	NE	0.5	160	0.5	96	96	400	400	400
ES ^B		5	0.6	70	100	700	NE	100	NE	5	800	5	480	480	2,000	2,000	2,000

Notes:

ug/L = micrograms per liter

NE= Not Established

PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, February 2017 exceedances are underlined italics.

ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, February 2017, exceedances are **bold**.

¹ - PAL and ES are for total trimethylbenzenes (the sum of 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene)

² - PAL and ES are for total xylenes (the sum of o-Xylene and m,p-Xylene)

^J - Estimated concentration between reporting limit and method detection limit

Table 3
Summary of Detected Volatile Organic Compounds in Groundwater Samples from NR141-Compliant Monitoring Wells
Allouez Phase II ESA

Well Location	Sample Date	Benzene (ug/L)	n-Butyl benzene (ug/L)	Chloroform (ug/L)	cis-1,2-Dichloro ethene (ug/L)	trans-1,2-Dichloro ethene (ug/L)	Ethyl benzene (ug/L)	Isopropyl benzene (ug/L)	Naphthalene (ug/L)	n-Propyl benzene (ug/L)	Tetra chloro ethene (ug/L)	Toluene (ug/L)	Tri chloro ethene (ug/L)	Total Trimethyl benzenes (ug/L)	Total Xylenes (ug/L)
MW-4	1/31/2017	<0.17	NPR	NPR	<0.41	<0.35	<0.2	NPR	<2.17	NPR	31.1	<0.67	<0.45	<2.05	<1.95
	4/20/2017	<0.17	NPR	NPR	<0.41	<0.35	<0.2	NPR	<2.17	NPR	45	<0.67	<0.45	<2.05	<1.95
	5/30/2017	<0.22	NPR	NPR	1.07	1.02	<0.26	NPR	<2.1	NPR	93	<0.19	<u>0.76</u>	<1.43	<0.72
	11/26/2018	0.28	NPR	NPR	1.59	1.97	<0.26	NPR	<2.1	NPR	96	<0.19	<u>1.91</u>	<1.43	<0.72
	10/31/2019	< 0.25	< 0.71	<1.3	1.5	1.7 ^J	< 0.22	< 0.39	< 1.2	< 0.81	85.5	< 0.17	<u>2.2</u>	<1.71	< 1.5
	1/30/2020	< 0.25	< 0.71	<1.3	1.3	<1.1	< 0.22	< 0.39	< 1.2	< 0.81	65.7	< 0.17	<u>1.8</u>	<1.71	< 1.5
MW-5	1/31/2017	5.5	NPR	NPR	<u>26</u>	<u>54</u>	94	NPR	<u>82</u>	NPR	16.4	10.7	16.4	<u>418</u>	<u>404</u>
	4/20/2017	<u>2.2</u>	NPR	NPR	<u>24.4</u>	<u>62</u>	94	NPR	<u>76</u>	NPR	13.4	9.2	9.2	<u>256</u>	211
	5/30/2017	<2.2	NPR	NPR	82	4.1	86	NPR	<u>75</u>	NPR	<3.8	11.9	<3	<u>428</u>	298
	11/26/2018	<u>1.55</u>	NPR	NPR	76	5	104	NPR	<u>80</u>	NPR	<u>3.8</u>	10.9	<1.5	709	<u>556</u>
	10/31/2019	<u>1.6^J</u>	5.8 ^J	< 6.4	79.7	10.6 ^J	92.7	27.4	<u>89.6</u>	54.9	<u>4.2^J</u>	6.2 ^J	< 1.3	672.8	<u>531</u>
	1/30/2020	<u>1.3^J</u>	<3.5	<6.4	85.5	8.3 ^J	74.1	17.4 ^J	<u>95.5</u>	28.4	<u>1.9^J</u>	4.7 ^J	<1.3	569	228
MW-6	1/31/2017	<u>1.86</u>	NPR	NPR	<u>35</u>	<u>66</u>	0.38	NPR	<2.17	NPR	122	<0.67	78	<2.05	<1.95
	4/20/2017	14.7	NPR	NPR	<u>41</u>	<u>73</u>	57	NPR	<2.17	NPR	126	58	79	23.01	106.4
	5/30/2017	6.6	NPR	NPR	<u>57</u>	127	58	NPR	8.9	NPR	115	41	132	61	176.8
	11/26/2018	26.7	NPR	NPR	<u>45</u>	<u>89</u>	17B	NPR	<u>65</u>	NPR	55	<u>195</u>	93	<u>238</u>	<u>521</u>
	10/31/2019	21.7	< 2.8	<u>5.9^J</u>	<u>48.4</u>	100	64.6	5.9 ^J	<u>16.6^J</u>	8.2 ^J	101	85.4	212	92.7	200
	1/30/2020	12	<2.8	<5.1	<u>48.5</u>	<u>90</u>	30.5	2.3 ^J	<u>6.8^J</u>	5.1 ^J	113	21	251	37.6	56.4
PAL ^A		0.5	NE	0.6	7	20	140	NE	10	NE	0.5	160	0.5	96	400
ES ^B		5	NE	6	70	100	700	NE	100	NE	5	800	5	480	2,000

Notes:

Data before October 2019 taken from reports WDNR-provided file.

ug/L = micrograms per liter NPR - Not previously reported

^J - Estimated concentration between reporting limit and method detection limit.

ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard, February 2017, Exceedances are **Bold**.

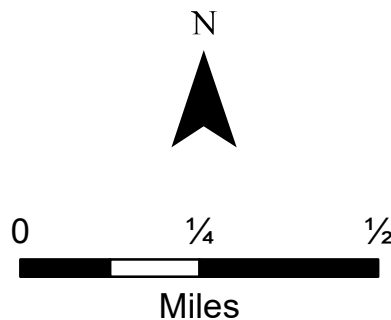
PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit, February 2017, Exceedances are Underlined Italics.

FIGURES



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**FIGURE 1
SITE LOCATION**

Phase II Environmental Site Assessment
1324 S. Webster Ave & 917-923 Derby Ln
Village of Allouez, Wisconsin 54301
AECOM Project Number: 60615481
August 2019



	Subject Property
	Surrounding Properties
	Approximate Fill Extent
	Storm Sewer Manhole
	Transformer

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Figure 2 - Site Layout & Surrounding Properties

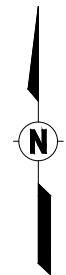
Phase II Environmental Site Assessment
 917-923 Derby Lane & 1324 South Webster Avenue
 Village of Allouez, Wisconsin 54301
 AECOM Project Number: 60615481
 November 2019

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- Legend:**
- Property Boundary for Phase II ESA
 - Location of Former Underground Storage Tank
 - Existing Monitoring Well
 - Temporary Well
 - Soil Probe Boring Proposed, but not completed
 - Soil Probe Boring - Installed



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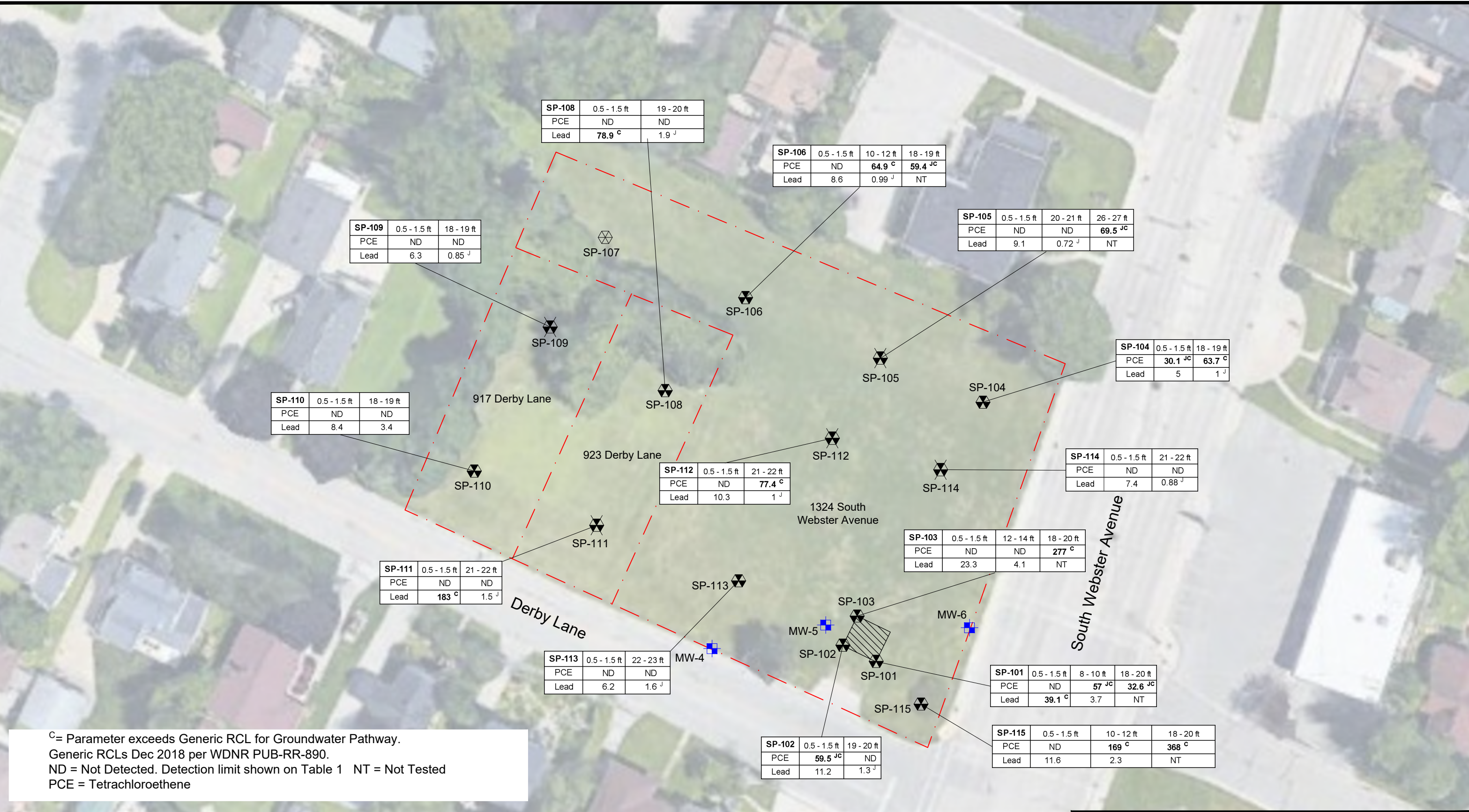


Phase II Environmental Site Assessment
 917-923 Derby Land & 1324 S Webster Ave
 Village of Allouez, WI 54301

Site Layout and Sample Locations

Project Number: 60615481 Drawn By: CAS Date: 11/19/2019 Figure No. 3

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SP-108	0.5 - 1.5 ft	19 - 20 ft
PCE	ND	ND
Lead	78.9^C	1.9 ^J

SP-106	0.5 - 1.5 ft	10 - 12 ft	18 - 19 ft
PCE	ND	64.9^C	59.4^{JC}
Lead	8.6	0.99 ^J	NT

SP-109	0.5 - 1.5 ft	18 - 19 ft
PCE	ND	ND
Lead	6.3	0.85 ^J

SP-105	0.5 - 1.5 ft	20 - 21 ft	26 - 27 ft
PCE	ND	ND	69.5^{JC}
Lead	9.1	0.72 ^J	NT

SP-104	0.5 - 1.5 ft	18 - 19 ft
PCE	30.1^{JC}	63.7^C
Lead	5	1 ^J

SP-110	0.5 - 1.5 ft	18 - 19 ft
PCE	ND	ND
Lead	8.4	3.4

SP-112	0.5 - 1.5 ft	21 - 22 ft
PCE	ND	77.4^C
Lead	10.3	1 ^J

SP-114	0.5 - 1.5 ft	21 - 22 ft
PCE	ND	ND
Lead	7.4	0.88 ^J

SP-111	0.5 - 1.5 ft	21 - 22 ft
PCE	ND	ND
Lead	183^C	1.5 ^J

SP-103	0.5 - 1.5 ft	12 - 14 ft	18 - 20 ft
PCE	ND	ND	277^C
Lead	23.3	4.1	NT

SP-113	0.5 - 1.5 ft	22 - 23 ft
PCE	ND	ND
Lead	6.2	1.6 ^J

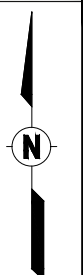
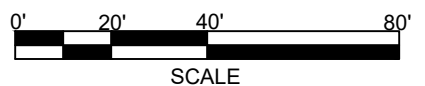
SP-101	0.5 - 1.5 ft	8 - 10 ft	18 - 20 ft
PCE	ND	57^{JC}	32.6^{JC}
Lead	39.1^C	3.7	NT

SP-102	0.5 - 1.5 ft	19 - 20 ft
PCE	59.5^{JC}	ND
Lead	11.2	1.3 ^J

SP-115	0.5 - 1.5 ft	10 - 12 ft	18 - 20 ft
PCE	ND	169^C	368^C
Lead	11.6	2.3	NT

^C = Parameter exceeds Generic RCL for Groundwater Pathway.
 Generic RCLs Dec 2018 per WDNR PUB-RR-890.
 ND = Not Detected. Detection limit shown on Table 1 NT = Not Tested
 PCE = Tetrachloroethene

- Legend:**
- Property Boundary for Phase II ESA
 - Location of Former Underground Storage Tank
 - Existing Monitoring Well
 - Temporary Well
 - Soil Probe Boring - Installed, but not completed
 - Soil Probe Boring - Installed

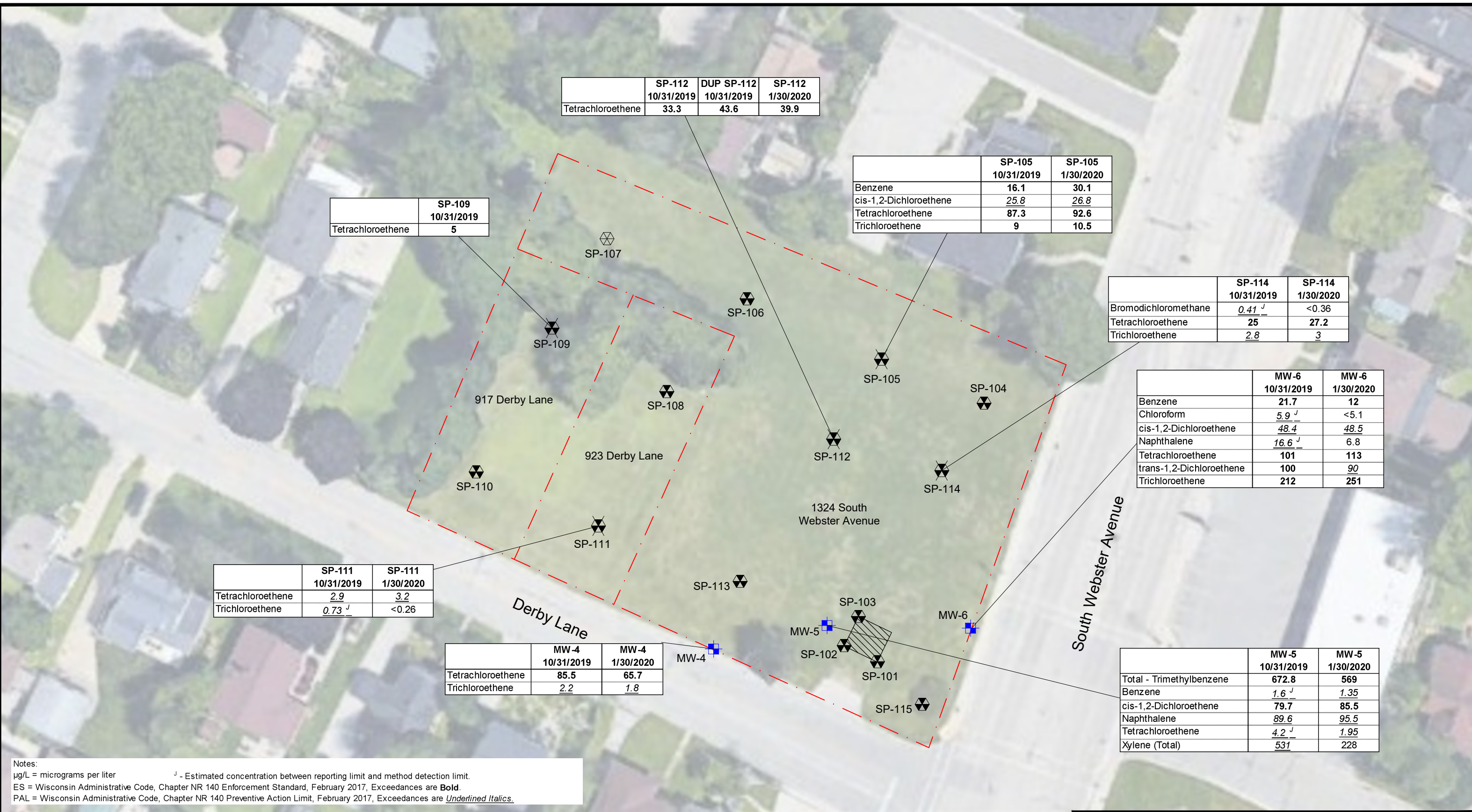


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Phase II Environmental Site Assessment 917-923 Derby Lane & 1324 S Webster Ave Village of Allouez, WI 54301		
Soil Laboratory Analytical Results with RCL Exceedances		
Project Number: 60615481	Drawn By: CAS	Date: 2/18/2020
		Figure No. 4

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	SP-112 10/31/2019	DUP SP-112 10/31/2019	SP-112 1/30/2020
Tetrachloroethene	33.3	43.6	39.9

	SP-109 10/31/2019
Tetrachloroethene	5

	SP-105 10/31/2019	SP-105 1/30/2020
Benzene	16.1	30.1
cis-1,2-Dichloroethene	25.8	26.8
Tetrachloroethene	87.3	92.6
Trichloroethene	9	10.5

	SP-114 10/31/2019	SP-114 1/30/2020
Bromodichloromethane	<u>0.41</u> ^J	<0.36
Tetrachloroethene	25	27.2
Trichloroethene	<u>2.8</u>	<u>3</u>

	MW-6 10/31/2019	MW-6 1/30/2020
Benzene	21.7	12
Chloroform	<u>5.9</u> ^J	<5.1
cis-1,2-Dichloroethene	<u>48.4</u>	48.5
Naphthalene	<u>16.6</u> ^J	6.8
Tetrachloroethene	101	113
trans-1,2-Dichloroethene	100	<u>90</u>
Trichloroethene	212	251

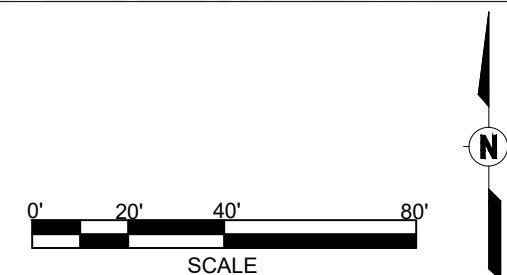
	SP-111 10/31/2019	SP-111 1/30/2020
Tetrachloroethene	<u>2.9</u>	<u>3.2</u>
Trichloroethene	<u>0.73</u> ^J	<0.26

	MW-4 10/31/2019	MW-4 1/30/2020
Tetrachloroethene	85.5	65.7
Trichloroethene	<u>2.2</u>	<u>1.8</u>

	MW-5 10/31/2019	MW-5 1/30/2020
Total - Trimethylbenzene	672.8	569
Benzene	<u>1.6</u> ^J	<u>1.35</u>
cis-1,2-Dichloroethene	79.7	85.5
Naphthalene	<u>89.6</u>	<u>95.5</u>
Tetrachloroethene	<u>4.2</u> ^J	<u>1.95</u>
Xylene (Total)	<u>531</u>	228

Notes:
 µg/L = micrograms per liter
 J - Estimated concentration between reporting limit and method detection limit.
 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard, February 2017, Exceedances are **Bold**.
 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit, February 2017, Exceedances are Underlined Italics.

- Legend:**
- - - - - Property Boundary for Phase II ESA
 - Location of Former Underground Storage Tank
 - Existing Monitoring Well
 - Temporary Well
 - Soil Probe Boring - Installed, but not completed
 - Soil Probe Boring - Installed



AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080 	Phase II Environmental Site Assessment 917-923 Derby Land & 1324 S Webster Ave Village of Allouez, WI 54301
	Groundwater Laboratory Analytical Results PAL or ES Exceedances
Project Number: 60615481 Drawn By: CAS Date: 2/18/2020	Figure No. 5

Appendix A Boring Logs and Borehole Abandonment Forms (WDNR Form 3300-005)

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-101	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/24/2019	Date Drilling Completed 10/24/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 22		2.5	Sandy silt topsoil with fill (asphalt and cinders), moist	SM			0.0						
2	48 12		5.0	Fine to medium sand, tan, moist	SP			0.1						
			7.5	Silt, tan, moist	SM			0.1						
3	48 40		10.0	Fine to medium sand, tan, moist	SP			0.2						
			12.5	Silt, tan, moist	SM			0.1						
3	48 42		15.0	Fine to medium sand, tan, moist Soil density increases with depth	SP			0.0						
5	48 48		17.5					0.0						
			20.0	End of boring at 20 feet bgs				0.3						
								0.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-102	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/24/2019	Date Drilling Completed 10/24/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 24		2.5	Sandy silt topsoil, brown, moist	SM			0.0						
2	48 36		5.0	Fine to medium sand, brown, moist Grain size increases to medium coarse with depth Brown color grades to tan with depth	SP			0.0						
3	48 36		7.5					0.4						
4	48 42		12.5					0.0						
5	48 44		15.0					0.1						
			17.5					0.1						
			20.0	End of boring at 20 feet bgs				0.2						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-103	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/24/2019	Date Drilling Completed 10/24/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 36		2.5	FILL: Sandy silt topsoil, brown	Fill			0.0						
				FILL: Clay, trace black mottling, moist, stiff	Fill			0.1						
2	48 48		5.0		Fill			0.0						
								0.0						
3	48 48		7.5	Silt with some sand, brown, dense Moisture increases with depth				0.2						
								0.1						
4	48 48		12.5		SM			0.0						
								0.0						
5	48 48		15.0	Becomes wet at 15.5 feet				0.0						
								0.0						
			17.5					0.0						
			20.0	Medium coarse sand, tan, wet	SP			0.0						
				End of boring at 20 feet bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Mike Pawlak Firm **AECOM** Tel: _____ Fax: _____

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-104	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/25/2019	Date Drilling Completed 10/25/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 14		2.5	FILL: Sandy silt topsoil, brown, moist	Fill			0.0						
2	48 46		5.0	FILL: Clay with some sand, trace fill (asphalt and coal), tan, moist, hard	Fill			0.1						
3	48 42		7.5	Fine sand with trace gravel, moist, loose Grain size and density of sand increases with depth	SP			0.0						
4	48 34		12.5					0.1						
5	48 38		15.0	Coarse sand with trace gravel, tan	SP			0.0						
			17.5					0.0						
			20.0	End of boring at 20 feet bgs				0.1						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-105	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/25/2019	Date Drilling Completed 10/25/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 34		2.5	FILL: Sandy silt topsoil, brown, moist	Fill			0.1						
			5.0	Silty clay, brown, moist, firm	Fill			0.1						
2	48 44		7.5	Fine to medium sand, tan, moist, dense Decrease in grain size with depth	SP			0.1						
			10.0	Grain size becomes fine at 11.5 feet Increase in gravel content with depth										
3	48 46		12.5	Fine sand with gravel, tan, moist, dense	SP			0.1						
			15.0	Becomes wet at 19 feet										
4	48 40		17.5	Fine to medium sand, saturated brown Note: Solvent odor present	SP			0.1						
			20.0											
5	48 36		22.5		SP			4.3						
			25.0											
6	48 16		27.5		SP			0.3						
			29.0	End of boring at 29 feet bgs										
8	48 2							0.2						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-106	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/25/2019	Date Drilling Completed 10/25/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
1/4 of		1/4 of Section	T	N, R	Long _____ ° _____ ' _____ "	
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 30		2.5	FILL; Silty clay topsoil with some roots, dark brown, moist, hard	Fill			0.0						
2	48 48		5.0	FILL: Silt with some sand, tan, moist, firm Moisture increases with depth	Fill			0.1						
3	48 48		7.5		Fill			0.1						
4	48 48		10.0	FILL: Sand and gravel, white, likely fill material	Fill			0.0						
5	48 34		12.5	Silty clay with some gravel, tan, firm	CL			0.3						
			15.0		CL			0.0						
			17.5	Silty clay or gravel, brown, wet, firm	CL			0.0						
			20.0	End of boring at 20 feet bgs				0.1						
								0.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-108	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/24/2019	Date Drilling Completed 10/24/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 32		2.5	FILL: Silty clay topsoil, brown, moist	Fill			0.0						
				FILL: Clay, brown, moist, firm Silt content increases with depth	Fill			0.2						
2	48 41		5.0	Silty clay, brown, moist, soft	CL			0.1						
				Silt, light tan, moist	CL			0.0						
3	48 42		7.5	Silt, light tan, moist	CL			0.1						
				Silty clay, tan, moist, soft Moisture increases with depth	CL			0.1						
4	48 21		12.5	Silty clay, tan, moist, soft Moisture increases with depth	CL			0.1						
				Becomes wet at 14 feet	CL			0.0						
5	48 42		15.0	Becomes wet at 14 feet	CL			0.0						
				Becomes wet at 14 feet	CL			0.2						
			17.5					0.1						
			20.0	End of boring at 20 feet bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-109	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/24/2019	Date Drilling Completed 10/24/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 39		2.5	FILL: Sandy silt topsoil, brown, moist	Fill			0.0						
				FILL: Silty clay with trace gravel, brown with trace black mottling, moist, medium plasticity	Fill									
2	48 48		5.0		Fill			0.0						
					Fill									
3	48 41		7.5					0.0						
4	48 44		10.0	Silt, tan, moist, dense	SM			0.0						
					SM									
5	48 41		12.5	Fine to medium sand with some silt, tan, moist Grain size increases with depth				0.0						
6	48 43		15.0	Grain size grades to coarse	SP			0.0						
					SP									
7	48 44		17.5					0.0						
8	48 22		20.0	Sand and gravel, gray, wet, dense	SP			0.1						
					SP									
			22.5					0.0						
			25.0											
			27.5					0.0						
			30.0	End of boring at 30 feet bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-110	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/24/2019	Date Drilling Completed 10/24/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 27		2.5	FILL: Sandy silt topsoil, trace roots, brown, moist	Fill			0.0						
			5.0	Silty clay with trace sand, brown, moist	CL			0.0						
2	48 48		7.5	Sandy silt, tan, moist	SM			0.1						
			12.5					0.0						
3	48 48		15.0	Fine to medium sand, tan, moist Moisture increases with depth Becomes wet at 17.5 feet	SP			0.1						
			17.5					0.0						
4	48 24		20.0	End of boring at 20 feet bgs				0.2						
							0.3							
5	48 40							0.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-111	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/24/2019	Date Drilling Completed 10/24/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		



Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 34		2.5	Sandy silt topsoil, brown, moist	SM									
				Sandy silt, brown, moist, dense	SM									
2	48 48		5.0	Silt, light brown, moist										
3	48 48		7.5		SM									
4	48 44		12.5	Silty clay, tan, moist, firm	CL									
5	48 34		17.5	Fine to medium sand, tan, moist	SP									
6	48 38		20.0	Clay with trace sand, tan, wet	CL									
			22.5											
			25.0	Sandy clay with gravel, gray, wet	CL									
			27.5	Coarse sand with some gravel, dense	SP									
				End of boring at 29 feet bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-112	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/24/2019	Date Drilling Completed 10/24/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
1/4 of		1/4 of Section	T	N, R	Long _____ ° _____ ' _____ "	
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 24		2.5	FILL: Sandy silt topsoil with fill (coal and concrete), moist	Fill			0.2						
				FILL: Clay, brown, moist, medium plasticity, firm	Fill			0.0						
2	48 41		5.0	FILL: Silt with trace gravel, tan, moist, dense	Fill			0.1						
								0.1						
3	48 11		7.5	Refusal at 9 feet bgs Offset north 10 feet				0.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-112 Offset	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/24/2019	Date Drilling Completed 10/24/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments					
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200						
			2.5	Blind drill to 9 feet bgs See boring log SP-112 for strata.															
			5.0																
1	48 37		10.0		Fine to medium sand, tan, moist, dense Grain size increases to coarse with depth				0.2										
2	48 42		12.5		Grain size becomes coarse at 15 feet	SP			0.7										
3	48 42		15.0						Becomes we at 8 feet			0.5							
			17.5					0.6											
4	48 41		20.0	Coarse sand, tan, wet	SP			0.3											
			22.5								0.1								
5	48 44		25.0								0.1								
			27.5					1.7											
			30.0					22.7											
			30.0	End of boring at 30 feet bgs				19.1											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-113	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/24/2019	Date Drilling Completed 10/24/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1	24 13			FILL: Sandy silt topsoil with fill (concrete), gray	Fill			0.1							
2	48 48		2.5	Silt, tan to brown, moist	ML			0.2							
			5.0	Sandy silt, tan, moist	SM			0.8							
3	48 48		7.5	Fine to medium sand, brown, moist				0.4							
4	48 48		10.0					0.3							
			12.5					0.3							
5	48 48		15.0					1.2							
			17.5					1.1							
6	48 46		20.0	Becomes wet at 19 feet				1.0							
			22.5					1.4							
			25.0					14.5							
7	48 48		27.5	Solvent odor at 27 feet				8.1							
			27.5	Gravel with some clay, black stained soil with petrol odor	GC			8.9							
8	48 42		30.0	End of boring at 30 feet bgs				122.9							
								102.7							
								87.6							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-114	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/24/2019	Date Drilling Completed 10/24/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 36		2.5	FILL: Sandy silt topsoil, moist	Fill			0.1						
			5.0	FILL: Clay, brown, moist, stiff				0.0						
2	48 44		7.5		Fill			0.0						
			10.0					0.1						
3	48 39		12.5	FILL: Gravel and concrete	Fill			0.0						
			15.0	Fine to medium sand, light brown, moist Grain size increases with depth	SP			0.1						
4	48 28		17.5					0.2						
			20.0	Medium sand, brown, wet	SP			0.0						
5	48 24		22.5					0.1						
			25.0	Silty clay with sand, gray, saturated, firm	CL			0.3						
6	48 44		27.5	Clay, hard, medium plasticity	CL			0.1						
			30.0	End of boring at 30 feet bgs				0.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>Mike Pawlak</i>	Firm AECOM	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Allouez Phase II			License/Permit/Monitoring Number		Boring Number SP-115	
Boring Drilled By: Name of crew chief (first, last) and Firm Keith Weisman Geiss Drilling			Date Drilling Started 10/24/2019	Date Drilling Completed 10/24/2019	Drilling Method geoprobe	
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N			Lat _____ ° _____ ' _____ "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Long _____ ° _____ ' _____ "			
Facility ID		County Brown	County Code 5	Civil Town/City/ or Village Village of Allouez		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	48 12		2.5	Sandy silt topsoil with trace gravel, brown, moist	SP			0.0						
2	48 18		5.0	Silty sand, brown, moist	SP			0.1						
			5.0	Fine to medium sand, tan, moist				0.0						
3	48 44		7.5					0.0						
			10.0					0.0						
4	48 48		12.5		SP			0.1						
			15.0					0.1						
5	48 46		17.5					0.2						
			20.0	End of boring at 20 feet bgs				0.1						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Mike Pawlak	Firm AECOM	Tel: Fax:
---------------------------------	----------------------	--------------

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Brown	WI Unique Well # of Removed Well	Hicap #	Facility Name Allouez Phase II	
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)		
° ' " ' W	° ' " ' N	Facility ID (FID or PWS) SP 101		
1/4 / 1/4	1/4	Section	Township	Range <input type="checkbox"/> E <input type="checkbox"/> W
or Gov't Lot #		License/Permit/Monitoring #		
Well Street Address			Original Well Owner	
Well City, Village or Town Village of Allouez			Present Well Owner	
Subdivision Name			Mailing Address of Present Owner	
Reason For Removal From Service			Well ZIP Code	
WI Unique Well # of Replacement Well			City of Present Owner	
Lot #			State	ZIP Code

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date
Construction Type:		If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		
Formation Type:		
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		
Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)	
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		
If yes, to what depth (feet)?	Depth to Water (feet)	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input checked="" type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input checked="" type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	20.0		

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing AECOM	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/24/2019	Date Received	Noted By
Street or Route		Telephone Number	Comments	
City	State	ZIP Code	Signature of Person Doing Work <i>Mike Pawlak</i>	Date Signed 10-24-2019

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Brown	WI Unique Well # of Removed Well	Hicap #	Facility Name Allouez Phase II		
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)			
° ' " ' W	° ' " ' N	Facility ID (FID or PWS)			
1/4 / 1/4	1/4	Section	Township	Range <input type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring # SP 102
or Gov't Lot #		Original Well Owner			
Well Street Address			Present Well Owner		
Well City, Village or Town Village of Allouez			Mailing Address of Present Owner		
Subdivision Name		Well ZIP Code		City of Present Owner	
Reason For Removal From Service		WI Unique Well # of Replacement Well		State	
				ZIP Code	

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole	Original Construction Date If a Well Construction Report is available, please attach.
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input checked="" type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input checked="" type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	20.0		

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing AECOM	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/24/2019	Date Received	Noted By
Street or Route		Telephone Number		Comments
City	State	ZIP Code	Signature of Person Doing Work <i>Mike Pawlak</i>	
			Date Signed 10-24-2019	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Brown	WI Unique Well # of Removed Well	Hicap #	Facility Name Allouez Phase II		
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)			
° ' " ' W	° ' " ' N	SP-103			
1/4 / 1/4	1/4	Section	Township	Range <input type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring #
or Gov't Lot #		Original Well Owner			
Well Street Address			Present Well Owner		
Well City, Village or Town Village of Allouez			Mailing Address of Present Owner		
Subdivision Name		Well ZIP Code		City of Present Owner	State ZIP Code
Reason For Removal From Service		WI Unique Well # of Replacement Well			

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Drillhole / Borehole	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input checked="" type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input checked="" type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	20.0		

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing AECOM	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/24/2019	Date Received	Noted By
Street or Route		Telephone Number	Comments	
City	State	ZIP Code	Signature of Person Doing Work <i>Mike Pawlak</i>	Date Signed 10-24-2019

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Brown	WI Unique Well # of Removed Well	Hicap #	Facility Name Allouez Phase II		
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)			
° ' " ' W	° ' " ' N	Section		Township	Range <input type="checkbox"/> E <input type="checkbox"/> W
1/4 / 1/4 or Gov't Lot #		Original Well Owner			
Well Street Address			Present Well Owner		
Well City, Village or Town Village of Allouez			Well ZIP Code		
Subdivision Name		Lot #		Mailing Address of Present Owner	
Reason For Removal From Service		WI Unique Well # of Replacement Well		City of Present Owner	
				State	ZIP Code

SP-104

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole	Original Construction Date If a Well Construction Report is available, please attach.
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, to what depth (feet)? Depth to Water (feet)	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input checked="" type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input checked="" type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	20.0		

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing AECOM	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/25/2019	Date Received	Noted By
Street or Route		Telephone Number		Comments
City	State	ZIP Code	Signature of Person Doing Work <i>Mike Pawlak</i>	
			Date Signed 10-24-2019	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County: **Brown**
WI Unique Well # of Removed Well: _____
Hicap #: _____

Facility Name: **Wisconsin Medical Credit Union**

Latitude / Longitude (see instructions): _____ N
_____ W
Format Code: DD GPS008
 DDM SCR002
 OTH001

Facility ID (FID or PWS): _____
License/Permit/Monitoring #: **SP-105**

1/4 / 1/4: _____
or Gov't Lot #: _____
Section: _____ Township: _____ Range: E
N W

Original Well Owner: **Village of Allouez**

Well Street Address: **917 Derby Ln; 923 Derby Ln; 1324 Webster Ave**

Present Well Owner: **Village of Allouez**

Well City, Village or Town: **Village of Allouez**
Well ZIP Code: **54301**

Mailing Address of Present Owner: _____

Subdivision Name: _____ Lot #: _____

City of Present Owner: **Village of Allouez** State: **WI** ZIP Code: **54301**

Reason for Removal from Service: **Temp Well Removal**
WI Unique Well # of Replacement Well: _____

4. Pump, Liner, Screen, Casing & Sealing Material

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well
 Water Well
 Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): **10-24-2019**
If a Well Construction Report is available, please attach.

- Pump and piping removed? Yes No N/A
Liner(s) removed? Yes No N/A
Liner(s) perforated? Yes No N/A
Screen removed? Yes No N/A
Casing left in place? Yes No N/A
Was casing cut off below surface? Yes No N/A
Did sealing material rise to surface? Yes No N/A
Did material settle after 24 hours? Yes No N/A
If yes, was hole retopped? Yes No N/A
If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): _____

Required Method of Placing Sealing Material:
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.): **10**
Casing Diameter (in.): **2**

Sealing Materials:
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

Lower Drillhole Diameter (in.): **N/A**
Casing Depth (ft.): **N/A**

Was well annular space grouted? Yes No Unknown

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

If yes, to what depth (feet)? _____
Depth to Water (feet): **N/A**

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite	Surface	10	1 Bag	

6. Comments

7. Supervision of Work **DNR Use Only**

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
Mike Pawlak		01/30/2020		
Street or Route	Telephone Number		Comments	
558 North Main Street	(920) 236-6728			
City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Oshkosh	WI	54901	<i>Mike Pawlak</i>	01-30-2020

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Brown	WI Unique Well # of Removed Well	Hicap #	Facility Name Allouez Phase II	
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)		
° ' " ' W	° ' " ' N	Facility ID (FID or PWS) SP-106		
1/4 / 1/4	1/4	Section	Township	Range <input type="checkbox"/> E <input type="checkbox"/> W
or Gov't Lot #		License/Permit/Monitoring #		
Well Street Address			Original Well Owner	
Well City, Village or Town Village of Allouez			Present Well Owner	
Subdivision Name			Mailing Address of Present Owner	
Reason For Removal From Service			Well ZIP Code	
WI Unique Well # of Replacement Well			City of Present Owner	
Lot #			State	ZIP Code

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole	Original Construction Date If a Well Construction Report is available, please attach.
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, to what depth (feet)? Depth to Water (feet)	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input checked="" type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input checked="" type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	20.0		

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing AECOM	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/25/2019	Date Received	Noted By
Street or Route		Telephone Number	Comments	
City	State	ZIP Code	Signature of Person Doing Work <i>Mike Pawlak</i>	
			Date Signed 10-24-19	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Brown	WI Unique Well # of Removed Well	Hicap #	Facility Name Allouez Phase II		
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)			
° ' " ' W	° ' " ' N	Facility ID (FID or PWS) SP-108			
1/4 / 1/4		Section	Township	Range <input type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring #
or Gov't Lot #		Original Well Owner			
Well Street Address		Present Well Owner			
Well City, Village or Town Village of Allouez		Mailing Address of Present Owner			
Subdivision Name		Well ZIP Code	City of Present Owner		State ZIP Code
Reason For Removal From Service		WI Unique Well # of Replacement Well			

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole	Original Construction Date If a Well Construction Report is available, please attach.
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If yes, to what depth (feet)? Depth to Water (feet)	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input checked="" type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input checked="" type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	20.0		

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing AECOM	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/24/2019	Date Received	Noted By
Street or Route		Telephone Number	Comments	
City	State	ZIP Code	Signature of Person Doing Work <i>Mike Pawlak</i>	
			Date Signed 10-24-19	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water
- Watershed/Wastewater
- Remediation/Redevelopment
- Waste Management
- Other: _____

1. Well Location Information

County: **Brown**
 WI Unique Well # of Removed Well: _____
 Hicap #: _____

Latitude / Longitude (see instructions): _____ N _____ W
 Format Code: DD DDM
 Method Code: GPS008 SCR002 OTH001

1/4 / 1/4 or Gov't Lot #: _____
 Section: _____ Township: _____ Range: E W

Well Street Address: **917 Derby Ln; 923 Derby Ln; 1324 Webster Ave**

Well City, Village or Town: **Village of Allouez**
Well ZIP Code: **54301**

Subdivision Name: _____ Lot #: _____

Reason for Removal from Service: **Temp Well Removal**
WI Unique Well # of Replacement Well: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well
 Water Well
 Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): **10-24-2019**
 If a Well Construction Report is available, please attach.

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): _____

Formation Type:
 Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.): **10**
Casing Diameter (in.): **2**

Lower Drillhole Diameter (in.): **N/A**
Casing Depth (ft.): **N/A**

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____
Depth to Water (feet): **N/A**

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite	Surface	10	1 Bag	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By	
Mike Pawlak		01/30/2020			
Street or Route	Telephone Number		Comments		
558 North Main Street	(920) 236-6728				
City	State	ZIP Code	Signature of Person Doing Work	Date Signed	
Oshkosh	WI	54901	Mike Pawlak	01-30-2020	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Brown	WI Unique Well # of Removed Well	Hicap #	Facility Name Allouez Phase II		
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)			
° ' " ' W	° ' " ' N	SP-110			
1/4 / 1/4	1/4	Section	Township	Range <input type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring #
or Gov't Lot #		Original Well Owner			
Well Street Address			Present Well Owner		
Well City, Village or Town Village of Allouez			Mailing Address of Present Owner		
Subdivision Name		Well ZIP Code		City of Present Owner	State ZIP Code
Reason For Removal From Service		WI Unique Well # of Replacement Well			

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Drillhole / Borehole	If a Well Construction Report is available, please attach.
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input checked="" type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped		
<input type="checkbox"/> Screened & Poured	<input type="checkbox"/> Other (Explain)		
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "		
<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Chips		
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
<input checked="" type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	20.0		

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing AECOM	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/24/2019	Date Received	Noted By
Street or Route		Telephone Number	Comments	
City	State	ZIP Code	Signature of Person Doing Work <i>Mike Pawlak</i>	Date Signed 10-24-19

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to DNR Bureau: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other: _____
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1. Well Location Information	2. Facility / Owner Information
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County Brown	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name Wisconsin Medical Credit Union		
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Facility ID (FID or PWS) SP-111		
Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		License/Permit/Monitoring # _____		Original Well Owner Village of Allouez	
1/4 / 1/4 or Gov't Lot #	Section	Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner Village of Allouez	
Well Street Address 917 Derby Ln; 923 Derby Ln; 1324 Webster Ave			Mailing Address of Present Owner _____		
Well City, Village or Town Village of Allouez		Well ZIP Code 54301			
Subdivision Name		Lot #		City of Present Owner Village of Allouez	State WI
				ZIP Code 54301	

3. Filled & Sealed Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
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Reason for Removal from Service Temp Well Removal	WI Unique Well # of Replacement Well _____	<input type="checkbox"/> Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		<input type="checkbox"/> Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Did sealing material rise to surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Original Construction Date (mm/dd/yyyy) 10-24-2019		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
If a Well Construction Report is available, please attach.		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		<input type="checkbox"/> For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 10	Casing Diameter (in.) 2		
Lower Drillhole Diameter (in.) N/A	Casing Depth (ft.) N/A		
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) N/A	

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
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Bentonite	Surface	10	1 Bag	
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6. Comments

7. Supervision of Work	DNR Use Only
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Name of Person or Firm Doing Filling & Sealing Mike Pawlak	License # _____	Date of Filling & Sealing or Verification (mm/dd/yyyy) 01/30/2020	Date Received	Noted By
Street or Route 558 North Main Street		Telephone Number (920) 236-6728		Comments
City Oshkosh	State WI	ZIP Code 54901	Signature of Person Doing Work <i>Mike Pawlak</i>	
			Date Signed 01-30-2020	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to DNR Bureau: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other: _____
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1. Well Location Information	2. Facility / Owner Information
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County Brown	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name Wisconsin Medical Credit Union		
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) SP-112
1/4 / 1/4 or Gov't Lot #	Section	Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring #	
Well Street Address 917 Derby Ln; 923 Derby Ln; 1324 Webster Ave			Original Well Owner Village of Allouez		
Well City, Village or Town Village of Allouez			Present Well Owner Village of Allouez		
Subdivision Name			Well ZIP Code 54301		Mailing Address of Present Owner
Reason for Removal from Service Temp Well Removal			City of Present Owner Village of Allouez		State WI
WI Unique Well # of Replacement Well _____			ZIP Code 54301		

3. Filled & Sealed Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
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<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 10-24-2019 If a Well Construction Report is available, please attach.	Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips			
Total Well Depth From Ground Surface (ft.) 10	Casing Diameter (in.) 2	For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
Lower Drillhole Diameter (in.) N/A	Casing Depth (ft.) N/A				
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown					
If yes, to what depth (feet)?	Depth to Water (feet) N/A				

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite	Surface	10	1 Bag	

6. Comments

7. Supervision of Work	DNR Use Only
------------------------	--------------

Name of Person or Firm Doing Filling & Sealing Mike Pawlak	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 01/30/2020	Date Received	Noted By
Street or Route 558 North Main Street		Telephone Number (920) 236-6728		Comments
City Oshkosh	State WI	ZIP Code 54901	Signature of Person Doing Work <i>Mike Pawlak</i>	
			Date Signed 1-30-2020	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Brown	WI Unique Well # of Removed Well	Hicap #	Facility Name Allouez Phase II		
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)			
° ' " ' W	° ' " ' N	Facility ID (FID or PWS) SP-113			
1/4 / 1/4		Section	Township	Range <input type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring #
or Gov't Lot #		Original Well Owner			
Well Street Address		Present Well Owner			
Well City, Village or Town Village of Allouez		Mailing Address of Present Owner			
Subdivision Name		Well ZIP Code	City of Present Owner		State ZIP Code
Reason For Removal From Service		WI Unique Well # of Replacement Well			

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date 10-24-19
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Drillhole / Borehole	If a Well Construction Report is available, please attach.
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input checked="" type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input checked="" type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	30.0		

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing AECOM	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/24/2019	Date Received	Noted By
Street or Route		Telephone Number	Comments	
City	State	ZIP Code	Signature of Person Doing Work <i>Mike Pawlak</i>	
			Date Signed 10-24-2019	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to DNR Bureau: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input checked="" type="checkbox"/> Remediation/Redevelopment <input type="checkbox"/> Waste Management <input type="checkbox"/> Other: _____
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1. Well Location Information	2. Facility / Owner Information
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County Brown	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name Wisconsin Medical Credit Union		
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) SP-114
1/4 / 1/4 or Gov't Lot #	Section	Township N	Range <input type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring #	
Well Street Address 917 Derby Ln; 923 Derby Ln; 1324 Webster Ave			Original Well Owner Village of Allouez		
Well City, Village or Town Village of Allouez			Present Well Owner Village of Allouez		
Subdivision Name			Well ZIP Code 54301		Mailing Address of Present Owner
Reason for Removal from Service Temp Well Removal			City of Present Owner Village of Allouez		State WI
WI Unique Well # of Replacement Well _____			ZIP Code 54301		

3. Filled & Sealed Well / Drillhole / Borehole Information	4. Pump, Liner, Screen, Casing & Sealing Material
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<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 10-24-2019 If a Well Construction Report is available, please attach.	Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (specify): _____		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips			
Total Well Depth From Ground Surface (ft.) 10	Casing Diameter (in.) 2	For Monitoring Wells and Monitoring Well Boreholes Only: <input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
Lower Drillhole Diameter (in.) N/A	Casing Depth (ft.) N/A				
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown					
If yes, to what depth (feet)?	Depth to Water (feet) N/A				

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
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Bentonite	Surface	10	1 Bag	
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6. Comments

7. Supervision of Work	DNR Use Only
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Name of Person or Firm Doing Filling & Sealing Mike Pawlak	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 01/30/2020	Date Received	Noted By
Street or Route 558 North Main Street		Telephone Number (920) 236-6728		Comments
City Oshkosh	State WI	ZIP Code 54901	Signature of Person Doing Work <i>Mike Pawlak</i>	
			Date Signed 01-30-2020	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other _____

1. Well Location Information **2. Facility / Owner Information**

County Brown	WI Unique Well # of Removed Well	Hicap #	Facility Name Allouez Phase II		
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)			
° ' " ' W	° ' " ' N	Section		Township	Range <input type="checkbox"/> E <input type="checkbox"/> W
1/4 / 1/4 or Gov't Lot #		Original Well Owner			
Well Street Address			Present Well Owner		
Well City, Village or Town Village of Allouez			Well ZIP Code		
Subdivision Name		Lot #		Mailing Address of Present Owner	
Reason For Removal From Service		WI Unique Well # of Replacement Well		City of Present Owner	
				State ZIP Code	

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Drillhole / Borehole	If a Well Construction Report is available, please attach.
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
Lower Drillhole Diameter (in.)	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input checked="" type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured		<input type="checkbox"/> Other (Explain)	
(Bentonite Chips)			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input checked="" type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	20.0		

6. Comments

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing AECOM	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/24/2019	Date Received	Noted By
Street or Route		Telephone Number	Comments	
City	State	ZIP Code	Signature of Person Doing Work <i>Mike Pawlak</i>	
			Date Signed 10-24-19	

Appendix B Laboratory Data Validation Memos

Memorandum

Date: November 11, 2019
To: Lanette Altenbach, Project Manager (PG)
From: Lisa Smith, Environmental Chemist (CEAC)
Subject: Data Validation - Analytical Results for Soil Samples
Limited Site Investigation
Allouez Phase II ESA

SUMMARY

Data validation was performed on the analytical results of the soil samples collected at the Allouez site on October 24 and 25, 2019 and submitted to Pace Analytical, Green Bay for analysis. Pace processed the samples and reported the results under sample delivery group (SDG) 40198063.

The analytical data were evaluated with reference to the United States Environmental Protection Agency (USEPA) National Functional Guidelines for Superfund Organic Methods Data Review (January 2017) and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017). The National Functional Guidelines were modified to accommodate the non-CLP methodology. Laboratory control limits and/or method criteria were used as appropriate as the basis for validation actions.

Based on the results of the validation, the data are valid as reported and may be used for decision making purpose. Results were acceptable without qualification. Results reported below the limit of quantitation (LOQ) were qualified as estimated (J) by the laboratory; qualifications of these results were accepted by the validator.

METHODS

The samples were analyzed by the methods listed below.

Analyte Group	Method	Number of Samples
VOCs	SW-846 8260	33 soil samples (plus 2 field duplicates and one trip blank)
PAHs	SW-846 8270 SIM	28 soil samples (plus 2 field duplicates)
Metals	SW-846 6010 and 7471	28 soil samples (plus 2 field duplicates)



REVIEW ELEMENTS

A limited data validation was performed on the samples. Quality control (QC) parameters listed below were reviewed, if applicable to the methodology.

Limited Validation

Holding Time
 Method Blanks
 Trip Blanks
 Surrogate Recoveries
 Laboratory Control Samples
 Matrix Spikes/Matrix Spike Duplicates
 Field Duplicates
 Quantitation Limits

DISCUSSION

Sample Receipt

Samples were received at the laboratory intact, properly preserved and in good condition, except for minor labeling issues as noted below. The samples were received on ice.

- The sample ID on the labels for PAH and metals for SP-106-18-19 was incomplete.
- A few of the vials were identified by depth and time as the labels bled.
- Sample SP-102-19-20D was missing the “D” on the sample labels.

Holding Times

Samples were extracted and analyzed within the hold times.

Method Blanks

Laboratory blanks are analyzed to assess contamination from laboratory procedures. Method blanks were analyzed at the correct frequency. Analytes were not detected in the associated method blanks, except as listed below.

Batches	Analysis Date	Analyte	Qualifications
339468	11/4/2019	1,2,3-Trichlorobenzene	None. Associated results are nondetect.
		Hexachloro-1,3-butadiene	
		n-Butylbenzene	
339573	11/4/2019	1,2,3-Trichlorobenzene	None. Associated results are nondetect.
		Hexachloro-1,3-butadiene	
		n-Butylbenzene	

Trip Blanks

Trip blanks are used to assess contamination from sample shipping. The trip blank results were nondetect.



Surrogate Recoveries

Surrogates are spiked into all field samples, field QC samples, and method QC samples and are used to evaluate accuracy. The surrogates are organic compounds similar to the target compounds in chemical composition and behavior in the analytical process, but are not usually found in environmental samples. Surrogates recoveries were within the laboratory specified QC limits.

Laboratory Control Samples (LCSs)

LCSs are analyzed to monitor the accuracy of the analytical method independent of matrix effects. LCS recoveries were within the laboratory specified QC limits.

Matrix Spike/Matrix Spike Duplicates (MS/MSDs)

MS/MSDs are analyzed to determine the effects of sample matrix on the measurement methodology. Samples listed below were analyzed as MS/MSDs:

- SP-102-19-20D: PAHs
- SP-104-18-19: Mercury
- SP-109-18-19: PAHs
- SP-111-21-22: VOCs
- SP-112-0.5-1.5: VOCs
- SP-114-0.5-1.5: VOC and Metals

MS/MSD recoveries and relative percent differences (RPDs) were within acceptable limits. Non-project MS/MSDs provided from batch analyses are not applicable and were not evaluated.

Quantitation

Some of the metals analytes were reported from 2 and 5 times dilutions and were reported as nondetects. The laboratory indicated the dilutions were due to high levels of non-target analytes or matrix interference.

Nondetect VOC soil results were reported on a wet weight basis.

Field Duplicates

Field duplicates are collected to assess the overall precision of field sampling and laboratory analysis. Two soil field duplicate samples were collected, and field precision is summarized below. RPDs for the field duplicate pair were within the 50 percent limit for soil samples, and were acceptable.

Sample & Compound(s)	Units	LOQ	Sample Concentration	Field Duplicate Concentration	RPD (%)
SP-102-19-20/SP-102-19-20D:					
Benzo(a)anthracene	ug/kg	2.4	2.6 J	2.4 U	8
Naphthalene	ug/kg	1.8	2 J	2.2 J	9.5
Arsenic	mg/kg	1.5	2 J	1.6 J	22.2
Barium	mg/kg	0.16	6.8	6.8	0
Chromium	mg/kg	0.29	5	4.3	15.1
Lead	mg/kg	0.63	1.3 J	1 J	26.1
SP-108-19-20/SP-108-19-20D:					
Naphthalene	ug/kg	2	2 U	2.9 J	--
Arsenic	mg/kg	1.7	4.7 J	3.3 J	35



Sample & Compound(s)	Units	LOQ	Sample Concentration	Field Duplicate Concentration	RPD (%)
Barium	mg/kg	0.18	15.6	22.8	37.5
Chromium	mg/kg	0.33	6.7	10.7	46
Lead	mg/kg	0.7	1.9 J	1.9 J	0
Mercury	mg/kg	0.012	0.02 J	0.018 J	10.5

Memorandum

Date: November 6, 2019

To: Lanette Altenbach, Project Manager (PG)

From: Lisa Smith, Environmental Chemist (CEAC)

Subject: Data Validation - Analytical Results for Groundwater Samples
Limited Site Investigation
Allouez Phase II ESA

SUMMARY

Data validation was performed on the analytical results of the groundwater samples collected at the Allouez site on October 31, 2019 and submitted to Pace Analytical, Green Bay for analysis. Pace processed the samples and reported the results under sample delivery group (SDG) 40198330.

The analytical data were evaluated with reference to the United States Environmental Protection Agency (USEPA) National Functional Guidelines for Superfund Organic Methods Data Review (January 2017). The National Functional Guidelines were modified to accommodate the non-CLP methodology. Laboratory control limits and/or method criteria were used as appropriate as the basis for validation actions.

Based on the results of the validation, the data are valid as reported and may be used for decision making purpose. Some data required qualifications as discussed below and summarized in Table 1. Data validation qualifiers override any assigned laboratory data flags. Results reported below the limit of quantitation (LOQ) were qualified as estimated (J) by the laboratory; qualifications of these results were accepted by the validator, but are not shown in Table 1.

METHODS

The samples were analyzed by the methods listed below.

Analyte Group	Method	Number of Samples
VOCs	SW-846 8260	8 groundwater samples (plus 1 field duplicate and one trip blank)

REVIEW ELEMENTS

A limited data validation was performed on the samples. Quality control (QC) parameters listed below were reviewed, if applicable to the methodology.

Limited Validation

Holding Time
Method Blanks
Trip Blanks
Surrogate Recoveries
Laboratory Control Samples
Matrix Spikes/Matrix Spike Duplicates
Field Duplicates
Quantitation Limits

DISCUSSION

Sample Receipt

Samples were received at the laboratory intact, properly preserved and in good condition, except as noted below. The samples were received on ice.

- Samples SP-105 and SP-109 had an elevated pH at the time of analysis indicating inadequate sample preservation or high groundwater pH.
- Both of the trip blank vials had headspace greater than 6 mm. The trip blank results were nondetect and qualified as estimated (UJ).

In addition, the laboratory noted that samples SP-105, SP-109 and SP-111 had heavy sediment in the samples.

Holding Times

Preserved VOC samples were analyzed within the 14-day hold times.

Samples SP-105 and SP-109 were evaluated using the 7-day holding time for unpreserved VOCs and were analyzed within this criterion.

Method Blanks

Laboratory blanks are analyzed to assess contamination from laboratory procedures. Method blanks were analyzed at the correct frequency. Analytes were not detected in the associated method blanks.

Trip Blanks

Trip blanks are used to assess contamination from sample shipping. The trip blank results were nondetect; however, were qualified as estimated (UJ) due to headspace.

Surrogate Recoveries

Surrogates are spiked into all field samples, field QC samples, and method QC samples and are used to evaluate accuracy. The surrogates are organic compounds similar to the target compounds in chemical composition and behavior in the analytical process, but are not usually found in environmental samples. Surrogates recoveries were within the laboratory specified QC limits.



Laboratory Control Samples (LCSs)

LCSs are analyzed to monitor the accuracy of the analytical method independent of matrix effects. LCS recoveries were within the laboratory specified QC limits.

Matrix Spike/Matrix Spike Duplicates (MS/MSDs)

MS/MSDs are analyzed to determine the effects of sample matrix on the measurement methodology. Extra sample volume was submitted for MS/MSD analysis for sample SP-109, and MS/MSD recoveries and relative percent differences (RPDs) were within acceptable limits.

Quantitation

Dilution was required during analysis of sample MW-5 due to high sample concentrations. The dilution was necessary to bring the sample concentrations within the calibration range of the instrument.

Field Duplicates

Field duplicates are collected to assess the overall precision of field sampling and laboratory analysis. One groundwater field duplicate sample was collected, and field precision is summarized below. RPDs for the field duplicate pair were within the 30 percent limit for groundwater, and were acceptable.

Sample & Compound(s)	Units	LOQ (max)	Sample Concentration	Field Duplicate Concentration	RPD (%)
SP-112/DUP SP-112:					
Tetrachloroethene	ug/L	1.1	33.3	43.6	26.8
Toluene	ug/L	5.0	0.17 U	0.28 J	--

Validation Flags

Table 1 – Data Validation Summary of Qualified Data

Sample ID	Analyte	Units	Validation Qualifier ¹	Reason Code ²
Groundwater Samples:				
Trip Blank	All VOCs	µg/L	UJ	hd

(1): Data Validation Qualifiers:

UJ: The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

(2): Reason Codes:

hd Headspace

Appendix C Laboratory Analytical Reports

November 07, 2019

Lanette Altenbach
AECOM, Inc.
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2019. 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,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40198063001	SP-115-0.5-1.5	Solid	10/24/19 10:35	10/25/19 17:47
40198063002	SP-115-18-20	Solid	10/24/19 10:51	10/25/19 17:47
40198063003	SP-115-10-12	Solid	10/24/19 10:46	10/25/19 17:47
40198063004	SP-105-26-27	Solid	10/25/19 14:06	10/25/19 17:47
40198063005	TRIP BLANK	Solid	10/25/19 17:11	10/25/19 17:47
40198063006	SP-111-0.5-1.5	Solid	10/25/19 16:17	10/25/19 17:47
40198063007	SP-111-21-22	Solid	10/25/19 16:22	10/25/19 17:47
40198063008	SP-112-0.5-1.5	Solid	10/25/19 16:25	10/25/19 17:47
40198063009	SP-112-21-22	Solid	10/25/19 16:31	10/25/19 17:47
40198063010	SP-113-0.5-1.5	Solid	10/25/19 16:45	10/25/19 17:47
40198063011	SP-113-22-23	Solid	10/25/19 16:50	10/25/19 17:47
40198063012	SP-114-0.5-1.5	Solid	10/25/19 14:39	10/25/19 17:47
40198063013	SP-114-21-22	Solid	10/25/19 17:05	10/25/19 17:47
40198063014	SP-101-18-20	Solid	10/25/19 05:57	10/25/19 17:47
40198063015	SP-101-8-10	Solid	10/25/19 05:52	10/25/19 17:47
40198063016	SP-101-0.5-1.5	Solid	10/25/19 05:47	10/25/19 17:47
40198063017	SP-102-0.5-1.5	Solid	10/25/19 15:00	10/25/19 17:47
40198063018	SP-102-19-20	Solid	10/25/19 15:12	10/25/19 17:47
40198063019	SP-102-19-20D	Solid	10/25/19 15:12	10/25/19 17:47
40198063020	SP-103-18-20	Solid	10/25/19 05:18	10/25/19 17:47
40198063021	SP-103-0.5-1.5	Solid	10/25/19 05:15	10/25/19 17:47
40198063022	SP-103-12-14	Solid	10/25/19 05:10	10/25/19 17:47
40198063023	SP-104-0.5-1.5	Solid	10/25/19 14:15	10/25/19 17:47
40198063024	SP-104-18-19	Solid	10/25/19 14:22	10/25/19 17:47
40198063025	SP-105-0.5-1.5	Solid	10/25/19 11:15	10/25/19 17:47
40198063026	SP-105-20-21	Solid	10/25/19 13:57	10/25/19 17:47
40198063027	SP-106-0.5-1.5	Solid	10/25/19 13:23	10/25/19 17:47
40198063028	SP-106-10-12	Solid	10/25/19 13:35	10/25/19 17:47
40198063029	SP-106-18-19	Solid	10/25/19 13:44	10/25/19 17:47
40198063030	SP-108-0.5-1.5	Solid	10/25/19 15:27	10/25/19 17:47
40198063031	SP-108-19-20	Solid	10/25/19 15:35	10/25/19 17:47
40198063032	SP-108-19-20D	Solid	10/25/19 15:35	10/25/19 17:47
40198063033	SP-109-0.5-1.5	Solid	10/25/19 15:50	10/25/19 17:47
40198063034	SP-109-18-19	Solid	10/25/19 15:59	10/25/19 17:47
40198063035	SP-110-0.5-1.5	Solid	10/25/19 16:02	10/25/19 17:47
40198063036	SP-110-18-19	Solid	10/25/19 16:07	10/25/19 17:47

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40198063001	SP-115-0.5-1.5	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	JMW	1	PASI-G
40198063002	SP-115-18-20	EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	JMW	1	PASI-G
40198063003	SP-115-10-12	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	JMW	1	PASI-G
40198063004	SP-105-26-27	EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	JMW	1	PASI-G
40198063005	TRIP BLANK	EPA 8260	ALD	65	PASI-G
40198063006	SP-111-0.5-1.5	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	JMW	1	PASI-G
40198063007	SP-111-21-22	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	JMW	1	PASI-G
40198063008	SP-112-0.5-1.5	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	JMW	1	PASI-G
40198063009	SP-112-21-22	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40198063010	SP-113-0.5-1.5	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40198063011	SP-113-22-23	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	JMW	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
40198063012	SP-114-0.5-1.5	EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	JMW	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
40198063013	SP-114-21-22	ASTM D2974-87	JMW	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	JMW	1	PASI-G
40198063014	SP-101-18-20	EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 8260	MDS	65	PASI-G
40198063015	SP-101-8-10	ASTM D2974-87	JMW	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	JMW	1	PASI-G
40198063016	SP-101-0.5-1.5	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 6010	TXW	7	PASI-G
40198063017	SP-102-0.5-1.5	EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40198063018	SP-102-19-20	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40198063018	SP-102-19-20	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G

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SAMPLE ANALYTE COUNT

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40198063019	SP-102-19-20D	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
40198063020	SP-103-18-20	EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
		EPA 8260	MDS	65	PASI-G
40198063021	SP-103-0.5-1.5	ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40198063022	SP-103-12-14	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
40198063023	SP-104-0.5-1.5	EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
40198063024	SP-104-18-19	ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
40198063025	SP-105-0.5-1.5	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
40198063026	SP-105-20-21	EPA 7471	AJT	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40198063027	SP-106-0.5-1.5	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
40198063028	SP-106-10-12	EPA 8260	MDS	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	65	PASI-G
40198063029	SP-106-18-19	ASTM D2974-87	K1S	1	PASI-G
		EPA 8260	ALD	65	PASI-G
		EPA 6010	TXW	7	PASI-G
40198063030	SP-108-0.5-1.5	EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40198063031	SP-108-19-20	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
40198063032	SP-108-19-20D	EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	ALD	65	PASI-G
40198063033	SP-109-0.5-1.5	ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
40198063034	SP-109-18-19	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40198063035	SP-110-0.5-1.5	EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
40198063036	SP-110-18-19	EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	ALD	65	PASI-G
		ASTM D2974-87	K1S	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40198063001	SP-115-0.5-1.5					
EPA 6010	Arsenic	1.9J	mg/kg	5.4	11/02/19 23:09	
EPA 6010	Barium	43.6	mg/kg	0.55	11/02/19 23:09	
EPA 6010	Chromium	18.1	mg/kg	1.1	11/02/19 23:09	
EPA 6010	Lead	11.6	mg/kg	2.2	11/02/19 23:09	
EPA 7471	Mercury	0.013J	mg/kg	0.038	11/06/19 12:34	
EPA 8270 by SIM	Acenaphthene	3.4J	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Anthracene	10.3J	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Benzo(a)anthracene	61.4	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Benzo(a)pyrene	92.7	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Benzo(b)fluoranthene	142	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Benzo(g,h,i)perylene	88.8	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Benzo(k)fluoranthene	54.6	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Chrysene	103	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Dibenz(a,h)anthracene	19.8J	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Fluoranthene	206	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Fluorene	3.7J	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	69.6	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Naphthalene	2.7J	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Phenanthrene	81.5	ug/kg	19.9	10/30/19 15:18	
EPA 8270 by SIM	Pyrene	140	ug/kg	19.9	10/30/19 15:18	
ASTM D2974-87	Percent Moisture	15.8	%	0.10	11/05/19 15:21	
40198063002	SP-115-18-20					
EPA 8260	Tetrachloroethene	368	ug/kg	61.9	11/04/19 11:50	
ASTM D2974-87	Percent Moisture	3.1	%	0.10	11/05/19 15:21	
40198063003	SP-115-10-12					
EPA 6010	Arsenic	2.4J	mg/kg	4.9	11/02/19 23:11	
EPA 6010	Barium	7.3	mg/kg	0.50	11/02/19 23:11	
EPA 6010	Chromium	5.2	mg/kg	1.0	11/02/19 23:11	
EPA 6010	Lead	2.3	mg/kg	2.0	11/02/19 23:11	
EPA 8260	Tetrachloroethene	169	ug/kg	64.1	11/04/19 12:13	
ASTM D2974-87	Percent Moisture	4.5	%	0.10	11/05/19 15:21	
40198063004	SP-105-26-27					
EPA 8260	Tetrachloroethene	69.5J	ug/kg	73.3	11/04/19 12:35	
ASTM D2974-87	Percent Moisture	18.1	%	0.10	11/05/19 18:29	
40198063006	SP-111-0.5-1.5					
EPA 6010	Arsenic	4.1J	mg/kg	5.3	11/02/19 23:14	
EPA 6010	Barium	61.6	mg/kg	0.54	11/02/19 23:14	
EPA 6010	Cadmium	0.24J	mg/kg	0.54	11/02/19 23:14	
EPA 6010	Chromium	17.8	mg/kg	1.1	11/02/19 23:14	
EPA 6010	Lead	183	mg/kg	2.2	11/02/19 23:14	
EPA 6010	Silver	0.75J	mg/kg	2.2	11/05/19 12:45	D3
EPA 7471	Mercury	0.028J	mg/kg	0.038	11/06/19 12:38	
EPA 8270 by SIM	Benzo(a)anthracene	2.9J	ug/kg	19.0	10/30/19 15:52	
EPA 8270 by SIM	Fluoranthene	2.4J	ug/kg	19.0	10/30/19 15:52	
ASTM D2974-87	Percent Moisture	11.9	%	0.10	11/05/19 15:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40198063007	SP-111-21-22					
EPA 6010	Arsenic	1.9J	mg/kg	5.5	11/02/19 23:16	
EPA 6010	Barium	7.5	mg/kg	0.57	11/02/19 23:16	
EPA 6010	Chromium	4.6	mg/kg	1.1	11/02/19 23:16	
EPA 6010	Lead	1.5J	mg/kg	2.3	11/02/19 23:16	
EPA 8270 by SIM	1-Methylnaphthalene	4.5J	ug/kg	19.7	10/30/19 16:09	
EPA 8270 by SIM	2-Methylnaphthalene	8.0J	ug/kg	19.7	10/30/19 16:09	
EPA 8270 by SIM	Naphthalene	6.1J	ug/kg	19.7	10/30/19 16:09	
ASTM D2974-87	Percent Moisture	15.0	%	0.10	11/05/19 15:22	
40198063008	SP-112-0.5-1.5					
EPA 6010	Barium	85.2	mg/kg	0.57	11/02/19 23:19	
EPA 6010	Chromium	38.9	mg/kg	1.1	11/02/19 23:19	
EPA 6010	Lead	10.3	mg/kg	2.3	11/02/19 23:19	
EPA 7471	Mercury	0.033J	mg/kg	0.038	11/06/19 12:43	
EPA 8270 by SIM	Acenaphthene	4.4J	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Acenaphthylene	3.2J	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Anthracene	7.9J	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Benzo(a)anthracene	14.0J	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Benzo(a)pyrene	9.0J	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Benzo(b)fluoranthene	14.7J	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Benzo(g,h,i)perylene	12.3J	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Benzo(k)fluoranthene	3.6J	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Chrysene	19.3J	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Fluoranthene	14.5J	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Fluorene	8.2J	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	4.8J	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	1-Methylnaphthalene	232	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	2-Methylnaphthalene	339	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Naphthalene	334	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Phenanthrene	120	ug/kg	20.5	10/30/19 16:26	
EPA 8270 by SIM	Pyrene	14.9J	ug/kg	20.5	10/30/19 16:26	
ASTM D2974-87	Percent Moisture	18.2	%	0.10	11/05/19 15:22	
40198063009	SP-112-21-22					
EPA 6010	Arsenic	1.7J	mg/kg	5.3	11/02/19 23:21	
EPA 6010	Barium	11.0	mg/kg	0.55	11/02/19 23:21	
EPA 6010	Chromium	5.9	mg/kg	1.1	11/02/19 23:21	
EPA 6010	Lead	1.0J	mg/kg	2.2	11/02/19 23:21	
EPA 8260	Tetrachloroethene	77.4	ug/kg	69.5	11/04/19 16:11	
ASTM D2974-87	Percent Moisture	13.6	%	0.10	11/04/19 13:19	
40198063010	SP-113-0.5-1.5					
EPA 6010	Arsenic	1.8J	mg/kg	5.3	11/02/19 23:28	
EPA 6010	Barium	83.7	mg/kg	0.54	11/02/19 23:28	
EPA 6010	Cadmium	0.16J	mg/kg	0.54	11/02/19 23:28	
EPA 6010	Chromium	27.8	mg/kg	1.1	11/02/19 23:28	
EPA 6010	Lead	6.2	mg/kg	2.2	11/02/19 23:28	
ASTM D2974-87	Percent Moisture	13.8	%	0.10	11/05/19 15:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40198063011	SP-113-22-23					
EPA 6010	Barium	10.2	mg/kg	0.53	11/02/19 23:31	
EPA 6010	Chromium	8.3	mg/kg	1.1	11/02/19 23:31	
EPA 6010	Lead	1.6J	mg/kg	2.1	11/02/19 23:31	
EPA 8270 by SIM	1-Methylnaphthalene	21.9	ug/kg	18.9	10/31/19 10:23	
EPA 8270 by SIM	2-Methylnaphthalene	7.0J	ug/kg	18.9	10/31/19 10:23	
EPA 8270 by SIM	Naphthalene	37.6	ug/kg	18.9	10/31/19 10:23	
EPA 8260	n-Butylbenzene	49.9J	ug/kg	67.9	11/04/19 15:24	
EPA 8260	Ethylbenzene	44.4J	ug/kg	67.9	11/04/19 15:24	
EPA 8260	Isopropylbenzene (Cumene)	32.9J	ug/kg	67.9	11/04/19 15:24	
EPA 8260	Naphthalene	106J	ug/kg	283	11/04/19 15:24	
EPA 8260	n-Propylbenzene	96.1	ug/kg	67.9	11/04/19 15:24	
EPA 8260	1,2,4-Trimethylbenzene	630	ug/kg	67.9	11/04/19 15:24	
EPA 8260	1,3,5-Trimethylbenzene	48.4J	ug/kg	67.9	11/04/19 15:24	
EPA 8260	Xylene (Total)	124J	ug/kg	204	11/04/19 15:24	
EPA 8260	m&p-Xylene	111J	ug/kg	136	11/04/19 15:24	
ASTM D2974-87	Percent Moisture	11.7	%	0.10	11/05/19 15:22	
40198063012	SP-114-0.5-1.5					
EPA 6010	Arsenic	2.5J	mg/kg	6.2	11/02/19 23:02	
EPA 6010	Barium	77.9	mg/kg	0.63	11/02/19 23:02	
EPA 6010	Chromium	29.7	mg/kg	1.3	11/02/19 23:02	
EPA 6010	Lead	7.4	mg/kg	2.5	11/02/19 23:02	
EPA 7471	Mercury	0.014J	mg/kg	0.044	11/06/19 12:27	
ASTM D2974-87	Percent Moisture	21.4	%	0.10	11/05/19 15:22	
40198063013	SP-114-21-22					
EPA 6010	Arsenic	1.9J	mg/kg	5.6	11/02/19 23:33	
EPA 6010	Barium	5.9	mg/kg	0.57	11/02/19 23:33	
EPA 6010	Chromium	4.0	mg/kg	1.1	11/02/19 23:33	
EPA 6010	Lead	0.88J	mg/kg	2.3	11/02/19 23:33	
ASTM D2974-87	Percent Moisture	15.3	%	0.10	11/04/19 14:13	
40198063014	SP-101-18-20					
EPA 8260	Tetrachloroethene	32.6J	ug/kg	62.8	11/04/19 19:03	
ASTM D2974-87	Percent Moisture	4.4	%	0.10	11/05/19 15:22	
40198063015	SP-101-8-10					
EPA 6010	Arsenic	2.2J	mg/kg	5.5	11/02/19 23:36	
EPA 6010	Barium	36.6	mg/kg	0.57	11/02/19 23:36	
EPA 6010	Chromium	14.5	mg/kg	1.1	11/02/19 23:36	
EPA 6010	Lead	3.7	mg/kg	2.3	11/02/19 23:36	
EPA 8260	Tetrachloroethene	57.0J	ug/kg	70.2	11/04/19 19:26	
ASTM D2974-87	Percent Moisture	14.6	%	0.10	11/05/19 15:22	
40198063016	SP-101-0.5-1.5					
EPA 6010	Arsenic	3.3J	mg/kg	5.7	11/02/19 23:38	
EPA 6010	Barium	50.5	mg/kg	0.58	11/02/19 23:38	
EPA 6010	Cadmium	0.36J	mg/kg	0.58	11/02/19 23:38	
EPA 6010	Chromium	15.4	mg/kg	1.2	11/02/19 23:38	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40198063016	SP-101-0.5-1.5					
EPA 6010	Lead	39.1	mg/kg	2.3	11/02/19 23:38	
EPA 7471	Mercury	0.039J	mg/kg	0.041	11/06/19 13:01	
EPA 8270 by SIM	Acenaphthene	3.0J	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Anthracene	9.8J	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Benzo(a)anthracene	40.0	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Benzo(a)pyrene	64.8	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Benzo(b)fluoranthene	64.5	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Benzo(g,h,i)perylene	44.3	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Benzo(k)fluoranthene	29.2	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Chrysene	48.1	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Dibenz(a,h)anthracene	9.6J	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Fluoranthene	112	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Fluorene	2.6J	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	34.8	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Naphthalene	3.2J	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Phenanthrene	51.8	ug/kg	20.3	11/01/19 12:53	
EPA 8270 by SIM	Pyrene	78.0	ug/kg	20.3	11/01/19 12:53	
ASTM D2974-87	Percent Moisture	17.7	%	0.10	11/04/19 16:19	
40198063017	SP-102-0.5-1.5					
EPA 6010	Arsenic	2.9J	mg/kg	5.7	11/02/19 23:41	
EPA 6010	Barium	111	mg/kg	0.59	11/02/19 23:41	
EPA 6010	Cadmium	0.20J	mg/kg	0.59	11/02/19 23:41	
EPA 6010	Chromium	33.3	mg/kg	1.2	11/02/19 23:41	
EPA 6010	Lead	11.2	mg/kg	2.4	11/02/19 23:41	
EPA 7471	Mercury	0.018J	mg/kg	0.040	11/06/19 13:04	
EPA 8270 by SIM	Acenaphthylene	7.7J	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	Anthracene	6.6J	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	Benzo(a)anthracene	17.3J	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	Benzo(a)pyrene	23.3	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	Benzo(b)fluoranthene	43.0	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	Benzo(g,h,i)perylene	23.1	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	Benzo(k)fluoranthene	14.3J	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	Chrysene	27.5	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	Dibenz(a,h)anthracene	6.2J	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	Fluoranthene	33.5	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	19.3J	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	1-Methylnaphthalene	6.7J	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	2-Methylnaphthalene	8.5J	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	Naphthalene	10J	ug/kg	20.5	11/01/19 14:38	C4
EPA 8270 by SIM	Phenanthrene	16.9J	ug/kg	20.5	11/01/19 14:38	
EPA 8270 by SIM	Pyrene	26.6	ug/kg	20.5	11/01/19 14:38	
EPA 8260	Tetrachloroethene	59.5J	ug/kg	73.6	11/04/19 20:12	
ASTM D2974-87	Percent Moisture	18.4	%	0.10	11/04/19 16:19	
40198063018	SP-102-19-20					
EPA 6010	Arsenic	2.0J	mg/kg	5.1	11/02/19 23:43	
EPA 6010	Barium	6.8	mg/kg	0.53	11/02/19 23:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40198063018	SP-102-19-20					
EPA 6010	Chromium	5.0	mg/kg	1.1	11/02/19 23:43	
EPA 6010	Lead	1.3J	mg/kg	2.1	11/02/19 23:43	
EPA 8270 by SIM	Benzo(a)anthracene	2.6J	ug/kg	18.7	10/31/19 16:43	
EPA 8270 by SIM	Naphthalene	2.0J	ug/kg	18.7	10/31/19 16:43	
ASTM D2974-87	Percent Moisture	10.8	%	0.10	11/04/19 13:43	
40198063019	SP-102-19-20D					
EPA 6010	Arsenic	1.6J	mg/kg	5.1	11/02/19 23:46	
EPA 6010	Barium	6.8	mg/kg	0.52	11/02/19 23:46	
EPA 6010	Chromium	4.3	mg/kg	1.0	11/02/19 23:46	
EPA 6010	Lead	1.0J	mg/kg	2.1	11/02/19 23:46	
EPA 8270 by SIM	Naphthalene	2.2J	ug/kg	18.7	10/31/19 12:41	
ASTM D2974-87	Percent Moisture	10.6	%	0.10	11/04/19 18:00	
40198063020	SP-103-18-20					
EPA 8260	Tetrachloroethene	277	ug/kg	68.2	11/04/19 21:21	
ASTM D2974-87	Percent Moisture	12.0	%	0.10	11/04/19 18:00	
40198063021	SP-103-0.5-1.5					
EPA 6010	Arsenic	2.1J	mg/kg	5.6	11/02/19 23:48	
EPA 6010	Barium	73.3	mg/kg	0.57	11/02/19 23:48	
EPA 6010	Cadmium	0.17J	mg/kg	0.57	11/02/19 23:48	
EPA 6010	Chromium	27.8	mg/kg	1.1	11/02/19 23:48	
EPA 6010	Lead	23.3	mg/kg	2.3	11/02/19 23:48	
EPA 7471	Mercury	0.015J	mg/kg	0.040	11/06/19 13:11	
EPA 8270 by SIM	Benzo(a)anthracene	4.3J	ug/kg	20.2	10/31/19 17:00	
EPA 8270 by SIM	Benzo(a)pyrene	3.4J	ug/kg	20.2	10/31/19 17:00	
EPA 8270 by SIM	Benzo(b)fluoranthene	5.0J	ug/kg	20.2	10/31/19 17:00	
EPA 8270 by SIM	Benzo(g,h,i)perylene	3.7J	ug/kg	20.2	10/31/19 17:00	
EPA 8270 by SIM	Benzo(k)fluoranthene	2.8J	ug/kg	20.2	10/31/19 17:00	
EPA 8270 by SIM	Chrysene	4.5J	ug/kg	20.2	10/31/19 17:00	
EPA 8270 by SIM	Fluoranthene	5.9J	ug/kg	20.2	10/31/19 17:00	
EPA 8270 by SIM	Pyrene	4.2J	ug/kg	20.2	10/31/19 17:00	
ASTM D2974-87	Percent Moisture	17.3	%	0.10	11/04/19 18:00	
40198063022	SP-103-12-14					
EPA 6010	Arsenic	3.9J	mg/kg	5.5	11/02/19 23:50	
EPA 6010	Barium	55.3	mg/kg	0.57	11/02/19 23:50	
EPA 6010	Chromium	21.0	mg/kg	1.1	11/02/19 23:50	
EPA 6010	Lead	4.1	mg/kg	2.3	11/02/19 23:50	
ASTM D2974-87	Percent Moisture	12.4	%	0.10	11/04/19 18:00	
40198063023	SP-104-0.5-1.5					
EPA 6010	Arsenic	3.2J	mg/kg	5.8	11/02/19 23:58	
EPA 6010	Barium	63.7	mg/kg	0.59	11/02/19 23:58	
EPA 6010	Chromium	20.4	mg/kg	1.2	11/02/19 23:58	
EPA 6010	Lead	5.0	mg/kg	2.4	11/02/19 23:58	
EPA 7471	Mercury	0.013J	mg/kg	0.040	11/06/19 13:20	
EPA 8270 by SIM	Benzo(a)anthracene	6.9J	ug/kg	19.9	11/01/19 13:11	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40198063023	SP-104-0.5-1.5					
EPA 8270 by SIM	Benzo(a)pyrene	15.2J	ug/kg	19.9	11/01/19 13:11	
EPA 8270 by SIM	Benzo(b)fluoranthene	12.3J	ug/kg	19.9	11/01/19 13:11	
EPA 8270 by SIM	Benzo(g,h,i)perylene	12.0J	ug/kg	19.9	11/01/19 13:11	
EPA 8270 by SIM	Benzo(k)fluoranthene	5.4J	ug/kg	19.9	11/01/19 13:11	
EPA 8270 by SIM	Chrysene	9.4J	ug/kg	19.9	11/01/19 13:11	
EPA 8270 by SIM	Dibenz(a,h)anthracene	4.2J	ug/kg	19.9	11/01/19 13:11	
EPA 8270 by SIM	Fluoranthene	6.6J	ug/kg	19.9	11/01/19 13:11	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	6.8J	ug/kg	19.9	11/01/19 13:11	
EPA 8270 by SIM	Pyrene	8.3J	ug/kg	19.9	11/01/19 13:11	
EPA 8260	Tetrachloroethene	30.1J	ug/kg	71.6	11/04/19 22:31	
ASTM D2974-87	Percent Moisture	16.2	%	0.10	11/04/19 18:01	
40198063024	SP-104-18-19					
EPA 6010	Barium	6.4	mg/kg	0.50	11/03/19 00:00	
EPA 6010	Chromium	4.8	mg/kg	0.99	11/03/19 00:00	
EPA 6010	Lead	1.0J	mg/kg	2.0	11/03/19 00:00	
EPA 8260	Tetrachloroethene	63.7	ug/kg	62.4	11/04/19 22:54	
ASTM D2974-87	Percent Moisture	3.8	%	0.10	11/04/19 18:01	
40198063025	SP-105-0.5-1.5					
EPA 6010	Arsenic	2.1J	mg/kg	5.9	11/03/19 00:03	
EPA 6010	Barium	110	mg/kg	0.60	11/03/19 00:03	
EPA 6010	Cadmium	0.17J	mg/kg	0.60	11/03/19 00:03	
EPA 6010	Chromium	35.9	mg/kg	1.2	11/03/19 00:03	
EPA 6010	Lead	9.1	mg/kg	2.4	11/03/19 00:03	
EPA 7471	Mercury	0.022J	mg/kg	0.037	11/06/19 13:38	
ASTM D2974-87	Percent Moisture	16.7	%	0.10	11/04/19 18:01	
40198063026	SP-105-20-21					
EPA 6010	Arsenic	3.4J	mg/kg	5.7	11/01/19 16:36	
EPA 6010	Barium	6.2	mg/kg	0.58	11/01/19 16:36	
EPA 6010	Chromium	3.5	mg/kg	1.2	11/01/19 16:36	
EPA 6010	Lead	0.72J	mg/kg	2.3	11/01/19 16:36	
ASTM D2974-87	Percent Moisture	16.1	%	0.10	11/04/19 19:02	
40198063027	SP-106-0.5-1.5					
EPA 6010	Arsenic	2.7J	mg/kg	5.5	11/01/19 16:38	
EPA 6010	Barium	47.8	mg/kg	0.56	11/01/19 16:38	
EPA 6010	Chromium	18.4	mg/kg	1.1	11/01/19 16:38	
EPA 6010	Lead	8.6	mg/kg	2.3	11/01/19 16:38	
EPA 7471	Mercury	0.015J	mg/kg	0.039	11/06/19 13:48	
EPA 8270 by SIM	Naphthalene	2.1J	ug/kg	19.8	11/01/19 15:29	
ASTM D2974-87	Percent Moisture	15.9	%	0.10	11/04/19 19:02	
40198063028	SP-106-10-12					
EPA 6010	Barium	5.9	mg/kg	0.49	11/01/19 16:43	
EPA 6010	Chromium	5.2	mg/kg	0.97	11/01/19 16:43	
EPA 6010	Lead	0.99J	mg/kg	1.9	11/01/19 16:43	
EPA 7471	Mercury	0.012J	mg/kg	0.035	11/06/19 13:50	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40198063028	SP-106-10-12					
EPA 8260	Tetrachloroethene	64.9	ug/kg	61.1	11/05/19 00:49	
ASTM D2974-87	Percent Moisture	1.8	%	0.10	11/04/19 19:02	
40198063029	SP-106-18-19					
EPA 8260	Tetrachloroethene	59.4J	ug/kg	60.0	11/04/19 23:42	
40198063030	SP-108-0.5-1.5					
EPA 6010	Barium	93.2	mg/kg	0.58	11/01/19 16:45	
EPA 6010	Chromium	29.2	mg/kg	1.2	11/01/19 16:45	
EPA 6010	Lead	78.9	mg/kg	4.6	11/05/19 13:09	
EPA 7471	Mercury	0.035J	mg/kg	0.040	11/06/19 13:52	
EPA 8270 by SIM	Anthracene	3.2J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	Benzo(a)anthracene	7.8J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	Benzo(a)pyrene	7.9J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	Benzo(b)fluoranthene	12.8J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	Benzo(g,h,i)perylene	6.9J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	Benzo(k)fluoranthene	4.7J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	Chrysene	10.4J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	Fluoranthene	14.7J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	5.1J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	1-Methylnaphthalene	11.4J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	2-Methylnaphthalene	14.6J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	Naphthalene	8.3J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	Phenanthrene	10.9J	ug/kg	20.2	11/01/19 16:04	
EPA 8270 by SIM	Pyrene	11.1J	ug/kg	20.2	11/01/19 16:04	
ASTM D2974-87	Percent Moisture	17.4	%	0.10	11/04/19 19:02	
40198063031	SP-108-19-20					
EPA 6010	Arsenic	4.7J	mg/kg	5.7	11/01/19 16:48	
EPA 6010	Barium	15.6	mg/kg	0.59	11/01/19 16:48	
EPA 6010	Chromium	6.7	mg/kg	1.2	11/01/19 16:48	
EPA 6010	Lead	1.9J	mg/kg	2.3	11/01/19 16:48	
EPA 7471	Mercury	0.020J	mg/kg	0.042	11/06/19 13:55	
ASTM D2974-87	Percent Moisture	17.3	%	0.10	11/04/19 19:02	
40198063032	SP-108-19-20D					
EPA 6010	Arsenic	3.3J	mg/kg	5.4	11/01/19 16:50	
EPA 6010	Barium	22.8	mg/kg	0.55	11/01/19 16:50	
EPA 6010	Chromium	10.7	mg/kg	1.1	11/01/19 16:50	
EPA 6010	Lead	1.9J	mg/kg	2.2	11/01/19 16:50	
EPA 7471	Mercury	0.018J	mg/kg	0.040	11/06/19 13:57	
EPA 8270 by SIM	Naphthalene	2.9J	ug/kg	20.0	11/01/19 16:38	
ASTM D2974-87	Percent Moisture	16.3	%	0.10	11/04/19 19:02	
40198063033	SP-109-0.5-1.5					
EPA 6010	Barium	67.7	mg/kg	0.58	11/01/19 16:58	
EPA 6010	Chromium	31.8	mg/kg	1.2	11/01/19 16:58	
EPA 6010	Lead	6.3	mg/kg	4.6	11/05/19 13:11	
EPA 6010	Silver	0.77J	mg/kg	2.3	11/05/19 13:11	D3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40198063033	SP-109-0.5-1.5					
EPA 7471	Mercury	0.048	mg/kg	0.037	11/06/19 13:59	
EPA 8270 by SIM	Benzo(a)anthracene	4.0J	ug/kg	19.4	11/01/19 16:55	
EPA 8270 by SIM	Benzo(a)pyrene	3.0J	ug/kg	19.4	11/01/19 16:55	
EPA 8270 by SIM	Benzo(b)fluoranthene	5.6J	ug/kg	19.4	11/01/19 16:55	
EPA 8270 by SIM	Chrysene	5.1J	ug/kg	19.4	11/01/19 16:55	
EPA 8270 by SIM	Fluoranthene	5.2J	ug/kg	19.4	11/01/19 16:55	
EPA 8270 by SIM	2-Methylnaphthalene	4.1J	ug/kg	19.4	11/01/19 16:55	
EPA 8270 by SIM	Naphthalene	3.9J	ug/kg	19.4	11/01/19 16:55	
EPA 8270 by SIM	Phenanthrene	5.0J	ug/kg	19.4	11/01/19 16:55	
EPA 8270 by SIM	Pyrene	4.3J	ug/kg	19.4	11/01/19 16:55	
ASTM D2974-87	Percent Moisture	14.0	%	0.10	11/04/19 19:02	
40198063034	SP-109-18-19					
EPA 6010	Arsenic	3.3J	mg/kg	5.5	11/01/19 17:00	
EPA 6010	Barium	6.7	mg/kg	0.56	11/01/19 17:00	
EPA 6010	Chromium	3.9	mg/kg	1.1	11/01/19 17:00	
EPA 6010	Lead	0.85J	mg/kg	2.2	11/01/19 17:00	
ASTM D2974-87	Percent Moisture	16.4	%	0.10	11/04/19 19:02	
40198063035	SP-110-0.5-1.5					
EPA 6010	Barium	97.1	mg/kg	0.56	11/01/19 17:03	
EPA 6010	Chromium	30.5	mg/kg	1.1	11/01/19 17:03	
EPA 6010	Lead	8.4	mg/kg	4.5	11/05/19 13:14	
EPA 7471	Mercury	0.040	mg/kg	0.040	11/06/19 14:04	
EPA 8270 by SIM	Benzo(a)anthracene	2.7J	ug/kg	20.1	11/01/19 17:12	
EPA 8270 by SIM	Fluoranthene	2.4J	ug/kg	20.1	11/01/19 17:12	
ASTM D2974-87	Percent Moisture	16.8	%	0.10	11/04/19 19:03	
40198063036	SP-110-18-19					
EPA 6010	Arsenic	3.3J	mg/kg	5.8	11/01/19 17:05	
EPA 6010	Barium	38.5	mg/kg	0.60	11/01/19 17:05	
EPA 6010	Cadmium	0.16J	mg/kg	0.60	11/01/19 17:05	
EPA 6010	Chromium	26.5	mg/kg	1.2	11/01/19 17:05	
EPA 6010	Lead	3.4	mg/kg	2.4	11/01/19 17:05	
EPA 7471	Mercury	0.020J	mg/kg	0.040	11/06/19 14:06	
ASTM D2974-87	Percent Moisture	16.9	%	0.10	11/04/19 19:03	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-115-0.5-1.5 Lab ID: 40198063001 Collected: 10/24/19 10:35 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Arsenic	1.9J	mg/kg	5.4	1.6	1	10/30/19 06:20	11/02/19 23:09	7440-38-2	
Barium	43.6	mg/kg	0.55	0.17	1	10/30/19 06:20	11/02/19 23:09	7440-39-3	
Cadmium	<0.15	mg/kg	0.55	0.15	1	10/30/19 06:20	11/02/19 23:09	7440-43-9	
Chromium	18.1	mg/kg	1.1	0.31	1	10/30/19 06:20	11/02/19 23:09	7440-47-3	
Lead	11.6	mg/kg	2.2	0.66	1	10/30/19 06:20	11/02/19 23:09	7439-92-1	
Selenium	<1.5	mg/kg	4.8	1.5	1	10/30/19 06:20	11/02/19 23:09	7782-49-2	
Silver	<0.68	mg/kg	2.2	0.68	2	10/30/19 06:20	11/05/19 12:43	7440-22-4	D3
7471 Mercury		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	0.013J	mg/kg	0.038	0.011	1	11/06/19 08:34	11/06/19 12:34	7439-97-6	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	3.4J	ug/kg	19.9	2.6	1	10/29/19 08:29	10/30/19 15:18	83-32-9	
Acenaphthylene	<2.5	ug/kg	19.9	2.5	1	10/29/19 08:29	10/30/19 15:18	208-96-8	
Anthracene	10.3J	ug/kg	19.9	2.5	1	10/29/19 08:29	10/30/19 15:18	120-12-7	
Benzo(a)anthracene	61.4	ug/kg	19.9	2.6	1	10/29/19 08:29	10/30/19 15:18	56-55-3	
Benzo(a)pyrene	92.7	ug/kg	19.9	2.3	1	10/29/19 08:29	10/30/19 15:18	50-32-8	
Benzo(b)fluoranthene	142	ug/kg	19.9	2.8	1	10/29/19 08:29	10/30/19 15:18	205-99-2	
Benzo(g,h,i)perylene	88.8	ug/kg	19.9	3.5	1	10/29/19 08:29	10/30/19 15:18	191-24-2	
Benzo(k)fluoranthene	54.6	ug/kg	19.9	2.5	1	10/29/19 08:29	10/30/19 15:18	207-08-9	
Chrysene	103	ug/kg	19.9	3.7	1	10/29/19 08:29	10/30/19 15:18	218-01-9	
Dibenz(a,h)anthracene	19.8J	ug/kg	19.9	2.7	1	10/29/19 08:29	10/30/19 15:18	53-70-3	
Fluoranthene	206	ug/kg	19.9	2.3	1	10/29/19 08:29	10/30/19 15:18	206-44-0	
Fluorene	3.7J	ug/kg	19.9	2.4	1	10/29/19 08:29	10/30/19 15:18	86-73-7	
Indeno(1,2,3-cd)pyrene	69.6	ug/kg	19.9	4.1	1	10/29/19 08:29	10/30/19 15:18	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	19.9	2.9	1	10/29/19 08:29	10/30/19 15:18	90-12-0	
2-Methylnaphthalene	<2.9	ug/kg	19.9	2.9	1	10/29/19 08:29	10/30/19 15:18	91-57-6	
Naphthalene	2.7J	ug/kg	19.9	1.9	1	10/29/19 08:29	10/30/19 15:18	91-20-3	
Phenanthrene	81.5	ug/kg	19.9	2.3	1	10/29/19 08:29	10/30/19 15:18	85-01-8	
Pyrene	140	ug/kg	19.9	2.9	1	10/29/19 08:29	10/30/19 15:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	28-99		1	10/29/19 08:29	10/30/19 15:18	321-60-8	
Terphenyl-d14 (S)	62	%	10-107		1	10/29/19 08:29	10/30/19 15:18	1718-51-0	
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/04/19 10:15	11/04/19 23:20	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-115-0.5-1.5 Lab ID: 40198063001 Collected: 10/24/19 10:35 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/04/19 10:15	11/04/19 23:20	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/04/19 10:15	11/04/19 23:20	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/04/19 10:15	11/04/19 23:20	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/04/19 10:15	11/04/19 23:20	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/04/19 10:15	11/04/19 23:20	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	75-69-4	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-115-0.5-1.5 **Lab ID: 40198063001** Collected: 10/24/19 10:35 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/04/19 10:15	11/04/19 23:20	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/04/19 10:15	11/04/19 23:20	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:20	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	57-146		1	11/04/19 10:15	11/04/19 23:20	1868-53-7	
Toluene-d8 (S)	118	%	64-134		1	11/04/19 10:15	11/04/19 23:20	2037-26-5	
4-Bromofluorobenzene (S)	99	%	54-126		1	11/04/19 10:15	11/04/19 23:20	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.8	%	0.10	0.10	1		11/05/19 15:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-115-18-20 **Lab ID: 40198063002** Collected: 10/24/19 10:51 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/01/19 14:15	11/04/19 11:50	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/01/19 14:15	11/04/19 11:50	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/01/19 14:15	11/04/19 11:50	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/01/19 14:15	11/04/19 11:50	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/01/19 14:15	11/04/19 11:50	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-115-18-20 **Lab ID: 40198063002** Collected: 10/24/19 10:51 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	79-34-5	W
Tetrachloroethene	368	ug/kg	61.9	25.8	1	11/01/19 14:15	11/04/19 11:50	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/01/19 14:15	11/04/19 11:50	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/01/19 14:15	11/04/19 11:50	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/01/19 14:15	11/04/19 11:50	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:50	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	57-146		1	11/01/19 14:15	11/04/19 11:50	1868-53-7	
Toluene-d8 (S)	113	%	64-134		1	11/01/19 14:15	11/04/19 11:50	2037-26-5	
4-Bromofluorobenzene (S)	97	%	54-126		1	11/01/19 14:15	11/04/19 11:50	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	3.1	%	0.10	0.10	1		11/05/19 15:21		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-115-10-12 **Lab ID: 40198063003** Collected: 10/24/19 10:46 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	2.4J	mg/kg	4.9	1.5	1	10/30/19 06:20	11/02/19 23:11	7440-38-2	
Barium	7.3	mg/kg	0.50	0.15	1	10/30/19 06:20	11/02/19 23:11	7440-39-3	
Cadmium	<0.13	mg/kg	0.50	0.13	1	10/30/19 06:20	11/02/19 23:11	7440-43-9	
Chromium	5.2	mg/kg	1.0	0.28	1	10/30/19 06:20	11/02/19 23:11	7440-47-3	
Lead	2.3	mg/kg	2.0	0.60	1	10/30/19 06:20	11/02/19 23:11	7439-92-1	
Selenium	<1.3	mg/kg	4.3	1.3	1	10/30/19 06:20	11/02/19 23:11	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	10/30/19 06:20	11/02/19 23:11	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.010	mg/kg	0.034	0.010	1	11/06/19 08:34	11/06/19 12:36	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.3	ug/kg	17.5	2.3	1	10/29/19 08:29	10/30/19 15:35	83-32-9	
Acenaphthylene	<2.2	ug/kg	17.5	2.2	1	10/29/19 08:29	10/30/19 15:35	208-96-8	
Anthracene	<2.2	ug/kg	17.5	2.2	1	10/29/19 08:29	10/30/19 15:35	120-12-7	
Benzo(a)anthracene	<2.3	ug/kg	17.5	2.3	1	10/29/19 08:29	10/30/19 15:35	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	17.5	2.0	1	10/29/19 08:29	10/30/19 15:35	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	17.5	2.4	1	10/29/19 08:29	10/30/19 15:35	205-99-2	
Benzo(g,h,i)perylene	<3.1	ug/kg	17.5	3.1	1	10/29/19 08:29	10/30/19 15:35	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	17.5	2.2	1	10/29/19 08:29	10/30/19 15:35	207-08-9	
Chrysene	<3.3	ug/kg	17.5	3.3	1	10/29/19 08:29	10/30/19 15:35	218-01-9	
Dibenz(a,h)anthracene	<2.4	ug/kg	17.5	2.4	1	10/29/19 08:29	10/30/19 15:35	53-70-3	
Fluoranthene	<2.1	ug/kg	17.5	2.1	1	10/29/19 08:29	10/30/19 15:35	206-44-0	
Fluorene	<2.1	ug/kg	17.5	2.1	1	10/29/19 08:29	10/30/19 15:35	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.6	ug/kg	17.5	3.6	1	10/29/19 08:29	10/30/19 15:35	193-39-5	
1-Methylnaphthalene	<2.6	ug/kg	17.5	2.6	1	10/29/19 08:29	10/30/19 15:35	90-12-0	
2-Methylnaphthalene	<2.6	ug/kg	17.5	2.6	1	10/29/19 08:29	10/30/19 15:35	91-57-6	
Naphthalene	<1.7	ug/kg	17.5	1.7	1	10/29/19 08:29	10/30/19 15:35	91-20-3	
Phenanthrene	<2.0	ug/kg	17.5	2.0	1	10/29/19 08:29	10/30/19 15:35	85-01-8	
Pyrene	<2.6	ug/kg	17.5	2.6	1	10/29/19 08:29	10/30/19 15:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	28-99		1	10/29/19 08:29	10/30/19 15:35	321-60-8	
Terphenyl-d14 (S)	62	%	10-107		1	10/29/19 08:29	10/30/19 15:35	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	71-43-2	W
Bromobenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	108-86-1	W
Bromochloromethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	74-97-5	W
Bromodichloromethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	75-27-4	W
Bromoform	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	75-25-2	W
Bromomethane	<71.3	ug/kg	255	71.3	1	11/01/19 14:15	11/04/19 12:13	74-83-9	W
n-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	104-51-8	W
sec-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	135-98-8	W
tert-Butylbenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	98-06-6	W
Carbon tetrachloride	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	56-23-5	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-115-10-12 Lab ID: 40198063003 Collected: 10/24/19 10:46 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	108-90-7	W
Chloroethane	<68.4	ug/kg	255	68.4	1	11/01/19 14:15	11/04/19 12:13	75-00-3	W
Chloroform	<47.4	ug/kg	255	47.4	1	11/01/19 14:15	11/04/19 12:13	67-66-3	W
Chloromethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	74-87-3	W
2-Chlorotoluene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	95-49-8	W
4-Chlorotoluene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	106-43-4	W
1,2-Dibromo-3-chloropropane	<93.1	ug/kg	255	93.1	1	11/01/19 14:15	11/04/19 12:13	96-12-8	W
Dibromochloromethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	124-48-1	W
1,2-Dibromoethane (EDB)	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	106-93-4	W
Dibromomethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	74-95-3	W
1,2-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	95-50-1	W
1,3-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	541-73-1	W
1,4-Dichlorobenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	106-46-7	W
Dichlorodifluoromethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	75-71-8	W
1,1-Dichloroethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	75-34-3	W
1,2-Dichloroethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	107-06-2	W
1,1-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	75-35-4	W
cis-1,2-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	156-59-2	W
trans-1,2-Dichloroethene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	156-60-5	W
1,2-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	78-87-5	W
1,3-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	142-28-9	W
2,2-Dichloropropane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	594-20-7	W
1,1-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	563-58-6	W
cis-1,3-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	10061-01-5	W
trans-1,3-Dichloropropene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	10061-02-6	W
Diisopropyl ether	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	108-20-3	W
Ethylbenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	100-41-4	W
Hexachloro-1,3-butadiene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	87-68-3	W
Isopropylbenzene (Cumene)	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	98-82-8	W
p-Isopropyltoluene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	99-87-6	W
Methylene Chloride	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	75-09-2	W
Methyl-tert-butyl ether	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	1634-04-4	W
Naphthalene	<40.9	ug/kg	255	40.9	1	11/01/19 14:15	11/04/19 12:13	91-20-3	W
n-Propylbenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	103-65-1	W
Styrene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	79-34-5	W
Tetrachloroethene	169	ug/kg	64.1	26.7	1	11/01/19 14:15	11/04/19 12:13	127-18-4	
Toluene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	108-88-3	W
1,2,3-Trichlorobenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	87-61-6	W
1,2,4-Trichlorobenzene	<48.5	ug/kg	255	48.5	1	11/01/19 14:15	11/04/19 12:13	120-82-1	W
1,1,1-Trichloroethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	71-55-6	W
1,1,2-Trichloroethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	79-00-5	W
Trichloroethene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	79-01-6	W
Trichlorofluoromethane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-115-10-12 **Lab ID: 40198063003** Collected: 10/24/19 10:46 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	96-18-4	W
1,2,4-Trimethylbenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	95-63-6	W
1,3,5-Trimethylbenzene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	108-67-8	W
Vinyl chloride	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	75-01-4	W
Xylene (Total)	<76.5	ug/kg	184	76.5	1	11/01/19 14:15	11/04/19 12:13	1330-20-7	W
m&p-Xylene	<51.0	ug/kg	122	51.0	1	11/01/19 14:15	11/04/19 12:13	179601-23-1	W
o-Xylene	<25.5	ug/kg	61.2	25.5	1	11/01/19 14:15	11/04/19 12:13	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	57-146		1	11/01/19 14:15	11/04/19 12:13	1868-53-7	
Toluene-d8 (S)	111	%	64-134		1	11/01/19 14:15	11/04/19 12:13	2037-26-5	
4-Bromofluorobenzene (S)	94	%	54-126		1	11/01/19 14:15	11/04/19 12:13	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	4.5	%	0.10	0.10	1		11/05/19 15:21		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-105-26-27 Lab ID: 40198063004 Collected: 10/25/19 14:06 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/01/19 14:15	11/04/19 12:35	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/01/19 14:15	11/04/19 12:35	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/01/19 14:15	11/04/19 12:35	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/01/19 14:15	11/04/19 12:35	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/01/19 14:15	11/04/19 12:35	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	100-42-5	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-105-26-27 **Lab ID: 40198063004** Collected: 10/25/19 14:06 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	79-34-5	W
Tetrachloroethene	69.5J	ug/kg	73.3	30.5	1	11/01/19 14:15	11/04/19 12:35	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/01/19 14:15	11/04/19 12:35	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/01/19 14:15	11/04/19 12:35	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/01/19 14:15	11/04/19 12:35	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:35	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	99	%	57-146		1	11/01/19 14:15	11/04/19 12:35	1868-53-7	
Toluene-d8 (S)	109	%	64-134		1	11/01/19 14:15	11/04/19 12:35	2037-26-5	
4-Bromofluorobenzene (S)	88	%	54-126		1	11/01/19 14:15	11/04/19 12:35	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	18.1	%	0.10	0.10	1		11/05/19 18:29		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **TRIP BLANK** Lab ID: **40198063005** Collected: 10/25/19 17:11 Received: 10/25/19 17:47 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/01/19 14:15	11/04/19 11:27	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/01/19 14:15	11/04/19 11:27	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/01/19 14:15	11/04/19 11:27	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/01/19 14:15	11/04/19 11:27	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/01/19 14:15	11/04/19 11:27	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: TRIP BLANK **Lab ID: 40198063005** Collected: 10/25/19 17:11 Received: 10/25/19 17:47 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/01/19 14:15	11/04/19 18:25	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/01/19 14:15	11/04/19 11:27	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/01/19 14:15	11/04/19 11:27	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 11:27	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	57-146		1	11/01/19 14:15	11/04/19 11:27	1868-53-7	
Toluene-d8 (S)	96	%	64-134		1	11/01/19 14:15	11/04/19 11:27	2037-26-5	
4-Bromofluorobenzene (S)	90	%	54-126		1	11/01/19 14:15	11/04/19 11:27	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-111-0-5-1.5 **Lab ID: 40198063006** Collected: 10/25/19 16:17 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.1J	mg/kg	5.3	1.6	1	10/30/19 06:20	11/02/19 23:14	7440-38-2	
Barium	61.6	mg/kg	0.54	0.16	1	10/30/19 06:20	11/02/19 23:14	7440-39-3	
Cadmium	0.24J	mg/kg	0.54	0.14	1	10/30/19 06:20	11/02/19 23:14	7440-43-9	
Chromium	17.8	mg/kg	1.1	0.30	1	10/30/19 06:20	11/02/19 23:14	7440-47-3	
Lead	183	mg/kg	2.2	0.65	1	10/30/19 06:20	11/02/19 23:14	7439-92-1	
Selenium	<1.4	mg/kg	4.7	1.4	1	10/30/19 06:20	11/02/19 23:14	7782-49-2	
Silver	0.75J	mg/kg	2.2	0.67	2	10/30/19 06:20	11/05/19 12:45	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.028J	mg/kg	0.038	0.011	1	11/06/19 08:34	11/06/19 12:38	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.5	ug/kg	19.0	2.5	1	10/29/19 08:29	10/30/19 15:52	83-32-9	
Acenaphthylene	<2.4	ug/kg	19.0	2.4	1	10/29/19 08:29	10/30/19 15:52	208-96-8	
Anthracene	<2.4	ug/kg	19.0	2.4	1	10/29/19 08:29	10/30/19 15:52	120-12-7	
Benzo(a)anthracene	2.9J	ug/kg	19.0	2.5	1	10/29/19 08:29	10/30/19 15:52	56-55-3	
Benzo(a)pyrene	<2.2	ug/kg	19.0	2.2	1	10/29/19 08:29	10/30/19 15:52	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	19.0	2.6	1	10/29/19 08:29	10/30/19 15:52	205-99-2	
Benzo(g,h,i)perylene	<3.3	ug/kg	19.0	3.3	1	10/29/19 08:29	10/30/19 15:52	191-24-2	
Benzo(k)fluoranthene	<2.4	ug/kg	19.0	2.4	1	10/29/19 08:29	10/30/19 15:52	207-08-9	
Chrysene	<3.6	ug/kg	19.0	3.6	1	10/29/19 08:29	10/30/19 15:52	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	19.0	2.6	1	10/29/19 08:29	10/30/19 15:52	53-70-3	
Fluoranthene	2.4J	ug/kg	19.0	2.2	1	10/29/19 08:29	10/30/19 15:52	206-44-0	
Fluorene	<2.3	ug/kg	19.0	2.3	1	10/29/19 08:29	10/30/19 15:52	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.0	ug/kg	19.0	4.0	1	10/29/19 08:29	10/30/19 15:52	193-39-5	
1-Methylnaphthalene	<2.8	ug/kg	19.0	2.8	1	10/29/19 08:29	10/30/19 15:52	90-12-0	
2-Methylnaphthalene	<2.8	ug/kg	19.0	2.8	1	10/29/19 08:29	10/30/19 15:52	91-57-6	
Naphthalene	<1.8	ug/kg	19.0	1.8	1	10/29/19 08:29	10/30/19 15:52	91-20-3	
Phenanthrene	<2.2	ug/kg	19.0	2.2	1	10/29/19 08:29	10/30/19 15:52	85-01-8	
Pyrene	<2.8	ug/kg	19.0	2.8	1	10/29/19 08:29	10/30/19 15:52	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	28-99		1	10/29/19 08:29	10/30/19 15:52	321-60-8	
Terphenyl-d14 (S)	63	%	10-107		1	10/29/19 08:29	10/30/19 15:52	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/01/19 14:15	11/04/19 12:58	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-111-0.5-1.5 **Lab ID: 40198063006** Collected: 10/25/19 16:17 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/01/19 14:15	11/04/19 12:58	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/01/19 14:15	11/04/19 12:58	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/01/19 14:15	11/04/19 12:58	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/01/19 14:15	11/04/19 12:58	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/01/19 14:15	11/04/19 12:58	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	75-69-4	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-111-0.5-1.5 **Lab ID: 40198063006** Collected: 10/25/19 16:17 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/01/19 14:15	11/04/19 12:58	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/01/19 14:15	11/04/19 12:58	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 12:58	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	57-146		1	11/01/19 14:15	11/04/19 12:58	1868-53-7	
Toluene-d8 (S)	111	%	64-134		1	11/01/19 14:15	11/04/19 12:58	2037-26-5	
4-Bromofluorobenzene (S)	94	%	54-126		1	11/01/19 14:15	11/04/19 12:58	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.9	%	0.10	0.10	1		11/05/19 15:21		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-111-21-22 **Lab ID: 40198063007** Collected: 10/25/19 16:22 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	1.9J	mg/kg	5.5	1.7	1	10/30/19 06:20	11/02/19 23:16	7440-38-2	
Barium	7.5	mg/kg	0.57	0.17	1	10/30/19 06:20	11/02/19 23:16	7440-39-3	
Cadmium	<0.15	mg/kg	0.57	0.15	1	10/30/19 06:20	11/02/19 23:16	7440-43-9	
Chromium	4.6	mg/kg	1.1	0.31	1	10/30/19 06:20	11/02/19 23:16	7440-47-3	
Lead	1.5J	mg/kg	2.3	0.68	1	10/30/19 06:20	11/02/19 23:16	7439-92-1	
Selenium	<1.5	mg/kg	4.9	1.5	1	10/30/19 06:20	11/02/19 23:16	7782-49-2	
Silver	<0.35	mg/kg	1.1	0.35	1	10/30/19 06:20	11/02/19 23:16	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.012	mg/kg	0.039	0.012	1	11/06/19 08:34	11/06/19 12:41	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	19.7	2.6	1	10/29/19 08:29	10/30/19 16:09	83-32-9	
Acenaphthylene	<2.5	ug/kg	19.7	2.5	1	10/29/19 08:29	10/30/19 16:09	208-96-8	
Anthracene	<2.4	ug/kg	19.7	2.4	1	10/29/19 08:29	10/30/19 16:09	120-12-7	
Benzo(a)anthracene	<2.5	ug/kg	19.7	2.5	1	10/29/19 08:29	10/30/19 16:09	56-55-3	
Benzo(a)pyrene	<2.2	ug/kg	19.7	2.2	1	10/29/19 08:29	10/30/19 16:09	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	19.7	2.7	1	10/29/19 08:29	10/30/19 16:09	205-99-2	
Benzo(g,h,i)perylene	<3.5	ug/kg	19.7	3.5	1	10/29/19 08:29	10/30/19 16:09	191-24-2	
Benzo(k)fluoranthene	<2.5	ug/kg	19.7	2.5	1	10/29/19 08:29	10/30/19 16:09	207-08-9	
Chrysene	<3.7	ug/kg	19.7	3.7	1	10/29/19 08:29	10/30/19 16:09	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	19.7	2.7	1	10/29/19 08:29	10/30/19 16:09	53-70-3	
Fluoranthene	<2.3	ug/kg	19.7	2.3	1	10/29/19 08:29	10/30/19 16:09	206-44-0	
Fluorene	<2.4	ug/kg	19.7	2.4	1	10/29/19 08:29	10/30/19 16:09	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.1	ug/kg	19.7	4.1	1	10/29/19 08:29	10/30/19 16:09	193-39-5	
1-Methylnaphthalene	4.5J	ug/kg	19.7	2.9	1	10/29/19 08:29	10/30/19 16:09	90-12-0	
2-Methylnaphthalene	8.0J	ug/kg	19.7	2.9	1	10/29/19 08:29	10/30/19 16:09	91-57-6	
Naphthalene	6.1J	ug/kg	19.7	1.9	1	10/29/19 08:29	10/30/19 16:09	91-20-3	
Phenanthrene	<2.3	ug/kg	19.7	2.3	1	10/29/19 08:29	10/30/19 16:09	85-01-8	
Pyrene	<2.9	ug/kg	19.7	2.9	1	10/29/19 08:29	10/30/19 16:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%	28-99		1	10/29/19 08:29	10/30/19 16:09	321-60-8	
Terphenyl-d14 (S)	72	%	10-107		1	10/29/19 08:29	10/30/19 16:09	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/01/19 14:15	11/04/19 13:21	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-111-21-22 Lab ID: **40198063007** Collected: 10/25/19 16:22 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/01/19 14:15	11/04/19 13:21	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/01/19 14:15	11/04/19 13:21	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/01/19 14:15	11/04/19 13:21	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/01/19 14:15	11/04/19 13:21	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/01/19 14:15	11/04/19 13:21	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-111-21-22 **Lab ID: 40198063007** Collected: 10/25/19 16:22 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/01/19 14:15	11/04/19 13:21	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/01/19 14:15	11/04/19 13:21	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/01/19 14:15	11/04/19 13:21	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	86	%	57-146		1	11/01/19 14:15	11/04/19 13:21	1868-53-7	
Toluene-d8 (S)	93	%	64-134		1	11/01/19 14:15	11/04/19 13:21	2037-26-5	
4-Bromofluorobenzene (S)	76	%	54-126		1	11/01/19 14:15	11/04/19 13:21	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.0	%	0.10	0.10	1		11/05/19 15:22		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-112-0.5-1.5 **Lab ID: 40198063008** Collected: 10/25/19 16:25 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<1.7	mg/kg	5.6	1.7	1	10/30/19 06:20	11/02/19 23:19	7440-38-2	
Barium	85.2	mg/kg	0.57	0.17	1	10/30/19 06:20	11/02/19 23:19	7440-39-3	
Cadmium	<0.15	mg/kg	0.57	0.15	1	10/30/19 06:20	11/02/19 23:19	7440-43-9	
Chromium	38.9	mg/kg	1.1	0.32	1	10/30/19 06:20	11/02/19 23:19	7440-47-3	
Lead	10.3	mg/kg	2.3	0.69	1	10/30/19 06:20	11/02/19 23:19	7439-92-1	
Selenium	<1.5	mg/kg	5.0	1.5	1	10/30/19 06:20	11/02/19 23:19	7782-49-2	
Silver	<0.70	mg/kg	2.3	0.70	2	10/30/19 06:20	11/05/19 12:47	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.033J	mg/kg	0.038	0.011	1	11/06/19 08:34	11/06/19 12:43	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	4.4J	ug/kg	20.5	2.7	1	10/29/19 08:29	10/30/19 16:26	83-32-9	
Acenaphthylene	3.2J	ug/kg	20.5	2.6	1	10/29/19 08:29	10/30/19 16:26	208-96-8	
Anthracene	7.9J	ug/kg	20.5	2.5	1	10/29/19 08:29	10/30/19 16:26	120-12-7	
Benzo(a)anthracene	14.0J	ug/kg	20.5	2.6	1	10/29/19 08:29	10/30/19 16:26	56-55-3	
Benzo(a)pyrene	9.0J	ug/kg	20.5	2.3	1	10/29/19 08:29	10/30/19 16:26	50-32-8	
Benzo(b)fluoranthene	14.7J	ug/kg	20.5	2.8	1	10/29/19 08:29	10/30/19 16:26	205-99-2	
Benzo(g,h,i)perylene	12.3J	ug/kg	20.5	3.6	1	10/29/19 08:29	10/30/19 16:26	191-24-2	
Benzo(k)fluoranthene	3.6J	ug/kg	20.5	2.6	1	10/29/19 08:29	10/30/19 16:26	207-08-9	
Chrysene	19.3J	ug/kg	20.5	3.9	1	10/29/19 08:29	10/30/19 16:26	218-01-9	
Dibenz(a,h)anthracene	<2.8	ug/kg	20.5	2.8	1	10/29/19 08:29	10/30/19 16:26	53-70-3	
Fluoranthene	14.5J	ug/kg	20.5	2.4	1	10/29/19 08:29	10/30/19 16:26	206-44-0	
Fluorene	8.2J	ug/kg	20.5	2.5	1	10/29/19 08:29	10/30/19 16:26	86-73-7	
Indeno(1,2,3-cd)pyrene	4.8J	ug/kg	20.5	4.3	1	10/29/19 08:29	10/30/19 16:26	193-39-5	
1-Methylnaphthalene	232	ug/kg	20.5	3.0	1	10/29/19 08:29	10/30/19 16:26	90-12-0	
2-Methylnaphthalene	339	ug/kg	20.5	3.0	1	10/29/19 08:29	10/30/19 16:26	91-57-6	
Naphthalene	334	ug/kg	20.5	2.0	1	10/29/19 08:29	10/30/19 16:26	91-20-3	
Phenanthrene	120	ug/kg	20.5	2.3	1	10/29/19 08:29	10/30/19 16:26	85-01-8	
Pyrene	14.9J	ug/kg	20.5	3.0	1	10/29/19 08:29	10/30/19 16:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	28-99		1	10/29/19 08:29	10/30/19 16:26	321-60-8	
Terphenyl-d14 (S)	63	%	10-107		1	10/29/19 08:29	10/30/19 16:26	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/04/19 10:15	11/04/19 22:57	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-112-0.5-1.5** Lab ID: **40198063008** Collected: 10/25/19 16:25 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/04/19 10:15	11/04/19 22:57	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/04/19 10:15	11/04/19 22:57	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/04/19 10:15	11/04/19 22:57	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/04/19 10:15	11/04/19 22:57	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/04/19 10:15	11/04/19 22:57	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-112-0.5-1.5 **Lab ID: 40198063008** Collected: 10/25/19 16:25 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/04/19 10:15	11/04/19 22:57	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/04/19 10:15	11/04/19 22:57	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 22:57	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	74	%	57-146		1	11/04/19 10:15	11/04/19 22:57	1868-53-7	
Toluene-d8 (S)	79	%	64-134		1	11/04/19 10:15	11/04/19 22:57	2037-26-5	
4-Bromofluorobenzene (S)	67	%	54-126		1	11/04/19 10:15	11/04/19 22:57	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	18.2	%	0.10	0.10	1		11/05/19 15:22		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-112-21-22** Lab ID: **40198063009** Collected: 10/25/19 16:31 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	1.7J	mg/kg	5.3	1.6	1	10/30/19 06:20	11/02/19 23:21	7440-38-2	
Barium	11.0	mg/kg	0.55	0.16	1	10/30/19 06:20	11/02/19 23:21	7440-39-3	
Cadmium	<0.15	mg/kg	0.55	0.15	1	10/30/19 06:20	11/02/19 23:21	7440-43-9	
Chromium	5.9	mg/kg	1.1	0.30	1	10/30/19 06:20	11/02/19 23:21	7440-47-3	
Lead	1.0J	mg/kg	2.2	0.66	1	10/30/19 06:20	11/02/19 23:21	7439-92-1	
Selenium	<1.4	mg/kg	4.8	1.4	1	10/30/19 06:20	11/02/19 23:21	7782-49-2	
Silver	<0.34	mg/kg	1.1	0.34	1	10/30/19 06:20	11/02/19 23:21	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.012	mg/kg	0.040	0.012	1	11/06/19 08:34	11/06/19 12:50	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.5	ug/kg	19.3	2.5	1	10/29/19 08:29	10/30/19 16:43	83-32-9	
Acenaphthylene	<2.4	ug/kg	19.3	2.4	1	10/29/19 08:29	10/30/19 16:43	208-96-8	
Anthracene	<2.4	ug/kg	19.3	2.4	1	10/29/19 08:29	10/30/19 16:43	120-12-7	
Benzo(a)anthracene	<2.5	ug/kg	19.3	2.5	1	10/29/19 08:29	10/30/19 16:43	56-55-3	
Benzo(a)pyrene	<2.2	ug/kg	19.3	2.2	1	10/29/19 08:29	10/30/19 16:43	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	19.3	2.7	1	10/29/19 08:29	10/30/19 16:43	205-99-2	
Benzo(g,h,i)perylene	<3.4	ug/kg	19.3	3.4	1	10/29/19 08:29	10/30/19 16:43	191-24-2	
Benzo(k)fluoranthene	<2.5	ug/kg	19.3	2.5	1	10/29/19 08:29	10/30/19 16:43	207-08-9	
Chrysene	<3.6	ug/kg	19.3	3.6	1	10/29/19 08:29	10/30/19 16:43	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	19.3	2.7	1	10/29/19 08:29	10/30/19 16:43	53-70-3	
Fluoranthene	<2.3	ug/kg	19.3	2.3	1	10/29/19 08:29	10/30/19 16:43	206-44-0	
Fluorene	<2.3	ug/kg	19.3	2.3	1	10/29/19 08:29	10/30/19 16:43	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.0	ug/kg	19.3	4.0	1	10/29/19 08:29	10/30/19 16:43	193-39-5	
1-Methylnaphthalene	<2.8	ug/kg	19.3	2.8	1	10/29/19 08:29	10/30/19 16:43	90-12-0	
2-Methylnaphthalene	<2.8	ug/kg	19.3	2.8	1	10/29/19 08:29	10/30/19 16:43	91-57-6	
Naphthalene	<1.9	ug/kg	19.3	1.9	1	10/29/19 08:29	10/30/19 16:43	91-20-3	
Phenanthrene	<2.2	ug/kg	19.3	2.2	1	10/29/19 08:29	10/30/19 16:43	85-01-8	
Pyrene	<2.8	ug/kg	19.3	2.8	1	10/29/19 08:29	10/30/19 16:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	28-99		1	10/29/19 08:29	10/30/19 16:43	321-60-8	
Terphenyl-d14 (S)	62	%	10-107		1	10/29/19 08:29	10/30/19 16:43	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 16:11	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-112-21-22 Lab ID: 40198063009 Collected: 10/25/19 16:31 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 16:11	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 16:11	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 16:11	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 16:11	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	79-34-5	W
Tetrachloroethene	77.4	ug/kg	69.5	28.9	1	11/02/19 08:30	11/04/19 16:11	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 16:11	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	75-69-4	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-112-21-22 **Lab ID: 40198063009** Collected: 10/25/19 16:31 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 16:11	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 16:11	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 16:11	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	57-146		1	11/02/19 08:30	11/04/19 16:11	1868-53-7	
Toluene-d8 (S)	109	%	64-134		1	11/02/19 08:30	11/04/19 16:11	2037-26-5	
4-Bromofluorobenzene (S)	97	%	54-126		1	11/02/19 08:30	11/04/19 16:11	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.6	%	0.10	0.10	1		11/04/19 13:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-113-0.5-1.5 **Lab ID:** 40198063010 Collected: 10/25/19 16:45 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	1.8J	mg/kg	5.3	1.6	1	10/30/19 06:20	11/02/19 23:28	7440-38-2	
Barium	83.7	mg/kg	0.54	0.16	1	10/30/19 06:20	11/02/19 23:28	7440-39-3	
Cadmium	0.16J	mg/kg	0.54	0.14	1	10/30/19 06:20	11/02/19 23:28	7440-43-9	
Chromium	27.8	mg/kg	1.1	0.30	1	10/30/19 06:20	11/02/19 23:28	7440-47-3	
Lead	6.2	mg/kg	2.2	0.65	1	10/30/19 06:20	11/02/19 23:28	7439-92-1	
Selenium	<1.4	mg/kg	4.7	1.4	1	10/30/19 06:20	11/02/19 23:28	7782-49-2	
Silver	<0.67	mg/kg	2.2	0.67	2	10/30/19 06:20	11/05/19 12:55	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.037	0.011	1	11/06/19 08:34	11/06/19 12:52	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.5	ug/kg	19.4	2.5	1	10/30/19 09:30	10/31/19 10:06	83-32-9	
Acenaphthylene	<2.4	ug/kg	19.4	2.4	1	10/30/19 09:30	10/31/19 10:06	208-96-8	
Anthracene	<2.4	ug/kg	19.4	2.4	1	10/30/19 09:30	10/31/19 10:06	120-12-7	
Benzo(a)anthracene	<2.5	ug/kg	19.4	2.5	1	10/30/19 09:30	10/31/19 10:06	56-55-3	
Benzo(a)pyrene	<2.2	ug/kg	19.4	2.2	1	10/30/19 09:30	10/31/19 10:06	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	19.4	2.7	1	10/30/19 09:30	10/31/19 10:06	205-99-2	
Benzo(g,h,i)perylene	<3.4	ug/kg	19.4	3.4	1	10/30/19 09:30	10/31/19 10:06	191-24-2	
Benzo(k)fluoranthene	<2.5	ug/kg	19.4	2.5	1	10/30/19 09:30	10/31/19 10:06	207-08-9	
Chrysene	<3.7	ug/kg	19.4	3.7	1	10/30/19 09:30	10/31/19 10:06	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	19.4	2.7	1	10/30/19 09:30	10/31/19 10:06	53-70-3	
Fluoranthene	<2.3	ug/kg	19.4	2.3	1	10/30/19 09:30	10/31/19 10:06	206-44-0	
Fluorene	<2.3	ug/kg	19.4	2.3	1	10/30/19 09:30	10/31/19 10:06	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.0	ug/kg	19.4	4.0	1	10/30/19 09:30	10/31/19 10:06	193-39-5	
1-Methylnaphthalene	<2.8	ug/kg	19.4	2.8	1	10/30/19 09:30	10/31/19 10:06	90-12-0	
2-Methylnaphthalene	<2.8	ug/kg	19.4	2.8	1	10/30/19 09:30	10/31/19 10:06	91-57-6	
Naphthalene	<1.9	ug/kg	19.4	1.9	1	10/30/19 09:30	10/31/19 10:06	91-20-3	
Phenanthrene	<2.2	ug/kg	19.4	2.2	1	10/30/19 09:30	10/31/19 10:06	85-01-8	
Pyrene	<2.8	ug/kg	19.4	2.8	1	10/30/19 09:30	10/31/19 10:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	28-99		1	10/30/19 09:30	10/31/19 10:06	321-60-8	
Terphenyl-d14 (S)	66	%	10-107		1	10/30/19 09:30	10/31/19 10:06	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 15:47	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-113-0.5-1.5 **Lab ID:** 40198063010 Collected: 10/25/19 16:45 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 15:47	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 15:47	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 15:47	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 15:47	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 15:47	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	75-69-4	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-113-0.5-1.5 **Lab ID: 40198063010** Collected: 10/25/19 16:45 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 15:47	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 15:47	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:47	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	57-146		1	11/02/19 08:30	11/04/19 15:47	1868-53-7	
Toluene-d8 (S)	110	%	64-134		1	11/02/19 08:30	11/04/19 15:47	2037-26-5	
4-Bromofluorobenzene (S)	97	%	54-126		1	11/02/19 08:30	11/04/19 15:47	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.8	%	0.10	0.10	1		11/05/19 15:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-113-22-23** Lab ID: **40198063011** Collected: 10/25/19 16:50 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<7.7	mg/kg	25.6	7.7	5	10/30/19 06:20	11/06/19 09:56	7440-38-2	D3
Barium	10.2	mg/kg	0.53	0.16	1	10/30/19 06:20	11/02/19 23:31	7440-39-3	
Cadmium	<0.14	mg/kg	0.53	0.14	1	10/30/19 06:20	11/02/19 23:31	7440-43-9	
Chromium	8.3	mg/kg	1.1	0.29	1	10/30/19 06:20	11/02/19 23:31	7440-47-3	
Lead	1.6J	mg/kg	2.1	0.63	1	10/30/19 06:20	11/02/19 23:31	7439-92-1	
Selenium	<1.4	mg/kg	4.6	1.4	1	10/30/19 06:20	11/02/19 23:31	7782-49-2	
Silver	<0.32	mg/kg	1.1	0.32	1	10/30/19 06:20	11/02/19 23:31	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.012	mg/kg	0.039	0.012	1	11/06/19 08:34	11/06/19 12:55	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.4	ug/kg	18.9	2.4	1	10/30/19 09:30	10/31/19 10:23	83-32-9	
Acenaphthylene	<2.4	ug/kg	18.9	2.4	1	10/30/19 09:30	10/31/19 10:23	208-96-8	
Anthracene	<2.3	ug/kg	18.9	2.3	1	10/30/19 09:30	10/31/19 10:23	120-12-7	
Benzo(a)anthracene	<2.4	ug/kg	18.9	2.4	1	10/30/19 09:30	10/31/19 10:23	56-55-3	
Benzo(a)pyrene	<2.1	ug/kg	18.9	2.1	1	10/30/19 09:30	10/31/19 10:23	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	18.9	2.6	1	10/30/19 09:30	10/31/19 10:23	205-99-2	
Benzo(g,h,i)perylene	<3.3	ug/kg	18.9	3.3	1	10/30/19 09:30	10/31/19 10:23	191-24-2	
Benzo(k)fluoranthene	<2.4	ug/kg	18.9	2.4	1	10/30/19 09:30	10/31/19 10:23	207-08-9	
Chrysene	<3.6	ug/kg	18.9	3.6	1	10/30/19 09:30	10/31/19 10:23	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	18.9	2.6	1	10/30/19 09:30	10/31/19 10:23	53-70-3	
Fluoranthene	<2.2	ug/kg	18.9	2.2	1	10/30/19 09:30	10/31/19 10:23	206-44-0	
Fluorene	<2.3	ug/kg	18.9	2.3	1	10/30/19 09:30	10/31/19 10:23	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.9	ug/kg	18.9	3.9	1	10/30/19 09:30	10/31/19 10:23	193-39-5	
1-Methylnaphthalene	21.9	ug/kg	18.9	2.8	1	10/30/19 09:30	10/31/19 10:23	90-12-0	
2-Methylnaphthalene	7.0J	ug/kg	18.9	2.8	1	10/30/19 09:30	10/31/19 10:23	91-57-6	
Naphthalene	37.6	ug/kg	18.9	1.8	1	10/30/19 09:30	10/31/19 10:23	91-20-3	
Phenanthrene	<2.2	ug/kg	18.9	2.2	1	10/30/19 09:30	10/31/19 10:23	85-01-8	
Pyrene	<2.8	ug/kg	18.9	2.8	1	10/30/19 09:30	10/31/19 10:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	28-99		1	10/30/19 09:30	10/31/19 10:23	321-60-8	
Terphenyl-d14 (S)	72	%	10-107		1	10/30/19 09:30	10/31/19 10:23	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 15:24	74-83-9	W
n-Butylbenzene	49.9J	ug/kg	67.9	28.3	1	11/02/19 08:30	11/04/19 15:24	104-51-8	
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: **SP-113-22-23** Lab ID: **40198063011** Collected: 10/25/19 16:50 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 15:24	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 15:24	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 15:24	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	108-20-3	W
Ethylbenzene	44.4J	ug/kg	67.9	28.3	1	11/02/19 08:30	11/04/19 15:24	100-41-4	
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	87-68-3	W
Isopropylbenzene (Cumene)	32.9J	ug/kg	67.9	28.3	1	11/02/19 08:30	11/04/19 15:24	98-82-8	
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	1634-04-4	W
Naphthalene	106J	ug/kg	283	45.3	1	11/02/19 08:30	11/04/19 15:24	91-20-3	
n-Propylbenzene	96.1	ug/kg	67.9	28.3	1	11/02/19 08:30	11/04/19 15:24	103-65-1	
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 15:24	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-113-22-23 **Lab ID: 40198063011** Collected: 10/25/19 16:50 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	96-18-4	W
1,2,4-Trimethylbenzene	630	ug/kg	67.9	28.3	1	11/02/19 08:30	11/04/19 15:24	95-63-6	
1,3,5-Trimethylbenzene	48.4J	ug/kg	67.9	28.3	1	11/02/19 08:30	11/04/19 15:24	108-67-8	
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	75-01-4	W
Xylene (Total)	124J	ug/kg	204	84.9	1	11/02/19 08:30	11/04/19 15:24	1330-20-7	
m&p-Xylene	111J	ug/kg	136	56.6	1	11/02/19 08:30	11/04/19 15:24	179601-23-1	
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:24	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	57-146		1	11/02/19 08:30	11/04/19 15:24	1868-53-7	
Toluene-d8 (S)	101	%	64-134		1	11/02/19 08:30	11/04/19 15:24	2037-26-5	
4-Bromofluorobenzene (S)	89	%	54-126		1	11/02/19 08:30	11/04/19 15:24	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.7	%	0.10	0.10	1		11/05/19 15:22		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-114-0.5-1.5 **Lab ID: 40198063012** Collected: 10/25/19 14:39 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	2.5J	mg/kg	6.2	1.9	1	10/30/19 06:20	11/02/19 23:02	7440-38-2	
Barium	77.9	mg/kg	0.63	0.19	1	10/30/19 06:20	11/02/19 23:02	7440-39-3	
Cadmium	<0.17	mg/kg	0.63	0.17	1	10/30/19 06:20	11/02/19 23:02	7440-43-9	
Chromium	29.7	mg/kg	1.3	0.35	1	10/30/19 06:20	11/02/19 23:02	7440-47-3	
Lead	7.4	mg/kg	2.5	0.76	1	10/30/19 06:20	11/02/19 23:02	7439-92-1	
Selenium	<1.7	mg/kg	5.5	1.7	1	10/30/19 06:20	11/02/19 23:02	7782-49-2	
Silver	<0.39	mg/kg	1.3	0.39	1	10/30/19 06:20	11/02/19 23:02	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.014J	mg/kg	0.044	0.013	1	11/06/19 08:34	11/06/19 12:27	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.8	ug/kg	21.2	2.8	1	10/30/19 09:30	10/31/19 10:40	83-32-9	
Acenaphthylene	<2.7	ug/kg	21.2	2.7	1	10/30/19 09:30	10/31/19 10:40	208-96-8	
Anthracene	<2.6	ug/kg	21.2	2.6	1	10/30/19 09:30	10/31/19 10:40	120-12-7	
Benzo(a)anthracene	<2.7	ug/kg	21.2	2.7	1	10/30/19 09:30	10/31/19 10:40	56-55-3	
Benzo(a)pyrene	<2.4	ug/kg	21.2	2.4	1	10/30/19 09:30	10/31/19 10:40	50-32-8	
Benzo(b)fluoranthene	<2.9	ug/kg	21.2	2.9	1	10/30/19 09:30	10/31/19 10:40	205-99-2	
Benzo(g,h,i)perylene	<3.7	ug/kg	21.2	3.7	1	10/30/19 09:30	10/31/19 10:40	191-24-2	
Benzo(k)fluoranthene	<2.7	ug/kg	21.2	2.7	1	10/30/19 09:30	10/31/19 10:40	207-08-9	
Chrysene	<4.0	ug/kg	21.2	4.0	1	10/30/19 09:30	10/31/19 10:40	218-01-9	
Dibenz(a,h)anthracene	<2.9	ug/kg	21.2	2.9	1	10/30/19 09:30	10/31/19 10:40	53-70-3	
Fluoranthene	<2.5	ug/kg	21.2	2.5	1	10/30/19 09:30	10/31/19 10:40	206-44-0	
Fluorene	<2.5	ug/kg	21.2	2.5	1	10/30/19 09:30	10/31/19 10:40	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.4	ug/kg	21.2	4.4	1	10/30/19 09:30	10/31/19 10:40	193-39-5	
1-Methylnaphthalene	<3.1	ug/kg	21.2	3.1	1	10/30/19 09:30	10/31/19 10:40	90-12-0	
2-Methylnaphthalene	<3.1	ug/kg	21.2	3.1	1	10/30/19 09:30	10/31/19 10:40	91-57-6	
Naphthalene	<2.1	ug/kg	21.2	2.1	1	10/30/19 09:30	10/31/19 10:40	91-20-3	
Phenanthrene	<2.4	ug/kg	21.2	2.4	1	10/30/19 09:30	10/31/19 10:40	85-01-8	
Pyrene	<3.1	ug/kg	21.2	3.1	1	10/30/19 09:30	10/31/19 10:40	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%	28-99		1	10/30/19 09:30	10/31/19 10:40	321-60-8	
Terphenyl-d14 (S)	56	%	10-107		1	10/30/19 09:30	10/31/19 10:40	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 15:01	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-114-0.5-1.5 **Lab ID: 40198063012** Collected: 10/25/19 14:39 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 15:01	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 15:01	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 15:01	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 15:01	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 15:01	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-114-0.5-1.5 **Lab ID: 40198063012** Collected: 10/25/19 14:39 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 15:01	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 15:01	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 15:01	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	117	%	57-146		1	11/02/19 08:30	11/04/19 15:01	1868-53-7	
Toluene-d8 (S)	121	%	64-134		1	11/02/19 08:30	11/04/19 15:01	2037-26-5	
4-Bromofluorobenzene (S)	107	%	54-126		1	11/02/19 08:30	11/04/19 15:01	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	21.4	%	0.10	0.10	1		11/05/19 15:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-114-21-22 **Lab ID: 40198063013** Collected: 10/25/19 17:05 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	1.9J	mg/kg	5.6	1.7	1	10/30/19 06:20	11/02/19 23:33	7440-38-2	
Barium	5.9	mg/kg	0.57	0.17	1	10/30/19 06:20	11/02/19 23:33	7440-39-3	
Cadmium	<0.15	mg/kg	0.57	0.15	1	10/30/19 06:20	11/02/19 23:33	7440-43-9	
Chromium	4.0	mg/kg	1.1	0.32	1	10/30/19 06:20	11/02/19 23:33	7440-47-3	
Lead	0.88J	mg/kg	2.3	0.69	1	10/30/19 06:20	11/02/19 23:33	7439-92-1	
Selenium	<1.5	mg/kg	5.0	1.5	1	10/30/19 06:20	11/02/19 23:33	7782-49-2	
Silver	<0.35	mg/kg	1.1	0.35	1	10/30/19 06:20	11/02/19 23:33	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.036	0.011	1	11/06/19 08:34	11/06/19 12:57	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	19.7	2.6	1	10/30/19 09:30	10/31/19 10:57	83-32-9	
Acenaphthylene	<2.5	ug/kg	19.7	2.5	1	10/30/19 09:30	10/31/19 10:57	208-96-8	
Anthracene	<2.4	ug/kg	19.7	2.4	1	10/30/19 09:30	10/31/19 10:57	120-12-7	
Benzo(a)anthracene	<2.6	ug/kg	19.7	2.6	1	10/30/19 09:30	10/31/19 10:57	56-55-3	
Benzo(a)pyrene	<2.2	ug/kg	19.7	2.2	1	10/30/19 09:30	10/31/19 10:57	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	19.7	2.7	1	10/30/19 09:30	10/31/19 10:57	205-99-2	
Benzo(g,h,i)perylene	<3.5	ug/kg	19.7	3.5	1	10/30/19 09:30	10/31/19 10:57	191-24-2	
Benzo(k)fluoranthene	<2.5	ug/kg	19.7	2.5	1	10/30/19 09:30	10/31/19 10:57	207-08-9	
Chrysene	<3.7	ug/kg	19.7	3.7	1	10/30/19 09:30	10/31/19 10:57	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	19.7	2.7	1	10/30/19 09:30	10/31/19 10:57	53-70-3	
Fluoranthene	<2.3	ug/kg	19.7	2.3	1	10/30/19 09:30	10/31/19 10:57	206-44-0	
Fluorene	<2.4	ug/kg	19.7	2.4	1	10/30/19 09:30	10/31/19 10:57	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.1	ug/kg	19.7	4.1	1	10/30/19 09:30	10/31/19 10:57	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	19.7	2.9	1	10/30/19 09:30	10/31/19 10:57	90-12-0	
2-Methylnaphthalene	<2.9	ug/kg	19.7	2.9	1	10/30/19 09:30	10/31/19 10:57	91-57-6	
Naphthalene	<1.9	ug/kg	19.7	1.9	1	10/30/19 09:30	10/31/19 10:57	91-20-3	
Phenanthrene	<2.3	ug/kg	19.7	2.3	1	10/30/19 09:30	10/31/19 10:57	85-01-8	
Pyrene	<2.9	ug/kg	19.7	2.9	1	10/30/19 09:30	10/31/19 10:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	28-99		1	10/30/19 09:30	10/31/19 10:57	321-60-8	
Terphenyl-d14 (S)	67	%	10-107		1	10/30/19 09:30	10/31/19 10:57	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 18:39	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-114-21-22** Lab ID: **40198063013** Collected: 10/25/19 17:05 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 18:39	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 18:39	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 18:39	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 18:39	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 18:39	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-114-21-22 **Lab ID: 40198063013** Collected: 10/25/19 17:05 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 18:39	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 18:39	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 18:39	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	98	%	57-146		1	11/02/19 08:30	11/04/19 18:39	1868-53-7	
Toluene-d8 (S)	102	%	64-134		1	11/02/19 08:30	11/04/19 18:39	2037-26-5	
4-Bromofluorobenzene (S)	91	%	54-126		1	11/02/19 08:30	11/04/19 18:39	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.3	%	0.10	0.10	1		11/04/19 14:13		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-101-18-20** Lab ID: **40198063014** Collected: 10/25/19 05:57 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 19:03	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 19:03	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 19:03	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 19:03	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 19:03	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-101-18-20 **Lab ID: 40198063014** Collected: 10/25/19 05:57 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	79-34-5	W
Tetrachloroethene	32.6J	ug/kg	62.8	26.2	1	11/02/19 08:30	11/04/19 19:03	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 19:03	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 19:03	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 19:03	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:03	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	113	%	57-146		1	11/02/19 08:30	11/04/19 19:03	1868-53-7	
Toluene-d8 (S)	111	%	64-134		1	11/02/19 08:30	11/04/19 19:03	2037-26-5	
4-Bromofluorobenzene (S)	100	%	54-126		1	11/02/19 08:30	11/04/19 19:03	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	4.4	%	0.10	0.10	1		11/05/19 15:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-101-8-10 **Lab ID: 40198063015** Collected: 10/25/19 05:52 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	2.2J	mg/kg	5.5	1.7	1	10/30/19 06:20	11/02/19 23:36	7440-38-2	
Barium	36.6	mg/kg	0.57	0.17	1	10/30/19 06:20	11/02/19 23:36	7440-39-3	
Cadmium	<0.15	mg/kg	0.57	0.15	1	10/30/19 06:20	11/02/19 23:36	7440-43-9	
Chromium	14.5	mg/kg	1.1	0.31	1	10/30/19 06:20	11/02/19 23:36	7440-47-3	
Lead	3.7	mg/kg	2.3	0.68	1	10/30/19 06:20	11/02/19 23:36	7439-92-1	
Selenium	<1.5	mg/kg	4.9	1.5	1	10/30/19 06:20	11/02/19 23:36	7782-49-2	
Silver	<0.35	mg/kg	1.1	0.35	1	10/30/19 06:20	11/02/19 23:36	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.038	0.011	1	11/06/19 08:34	11/06/19 12:59	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.5	ug/kg	19.5	2.5	1	10/30/19 09:30	10/31/19 11:15	83-32-9	
Acenaphthylene	<2.5	ug/kg	19.5	2.5	1	10/30/19 09:30	10/31/19 11:15	208-96-8	
Anthracene	<2.4	ug/kg	19.5	2.4	1	10/30/19 09:30	10/31/19 11:15	120-12-7	
Benzo(a)anthracene	<2.5	ug/kg	19.5	2.5	1	10/30/19 09:30	10/31/19 11:15	56-55-3	
Benzo(a)pyrene	<2.2	ug/kg	19.5	2.2	1	10/30/19 09:30	10/31/19 11:15	50-32-8	
Benzo(b)fluoranthene	<2.7	ug/kg	19.5	2.7	1	10/30/19 09:30	10/31/19 11:15	205-99-2	
Benzo(g,h,i)perylene	<3.4	ug/kg	19.5	3.4	1	10/30/19 09:30	10/31/19 11:15	191-24-2	
Benzo(k)fluoranthene	<2.5	ug/kg	19.5	2.5	1	10/30/19 09:30	10/31/19 11:15	207-08-9	
Chrysene	<3.7	ug/kg	19.5	3.7	1	10/30/19 09:30	10/31/19 11:15	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	19.5	2.7	1	10/30/19 09:30	10/31/19 11:15	53-70-3	
Fluoranthene	<2.3	ug/kg	19.5	2.3	1	10/30/19 09:30	10/31/19 11:15	206-44-0	
Fluorene	<2.3	ug/kg	19.5	2.3	1	10/30/19 09:30	10/31/19 11:15	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.1	ug/kg	19.5	4.1	1	10/30/19 09:30	10/31/19 11:15	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	19.5	2.9	1	10/30/19 09:30	10/31/19 11:15	90-12-0	
2-Methylnaphthalene	<2.9	ug/kg	19.5	2.9	1	10/30/19 09:30	10/31/19 11:15	91-57-6	
Naphthalene	<1.9	ug/kg	19.5	1.9	1	10/30/19 09:30	10/31/19 11:15	91-20-3	
Phenanthrene	<2.2	ug/kg	19.5	2.2	1	10/30/19 09:30	10/31/19 11:15	85-01-8	
Pyrene	<2.9	ug/kg	19.5	2.9	1	10/30/19 09:30	10/31/19 11:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	28-99		1	10/30/19 09:30	10/31/19 11:15	321-60-8	
Terphenyl-d14 (S)	67	%	10-107		1	10/30/19 09:30	10/31/19 11:15	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 19:26	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-101-8-10 Lab ID: **40198063015** Collected: 10/25/19 05:52 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 19:26	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 19:26	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 19:26	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 19:26	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	79-34-5	W
Tetrachloroethene	57.0J	ug/kg	70.2	29.3	1	11/02/19 08:30	11/04/19 19:26	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 19:26	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	75-69-4	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-101-8-10 **Lab ID: 40198063015** Collected: 10/25/19 05:52 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 19:26	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 19:26	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:26	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	113	%	57-146		1	11/02/19 08:30	11/04/19 19:26	1868-53-7	
Toluene-d8 (S)	111	%	64-134		1	11/02/19 08:30	11/04/19 19:26	2037-26-5	
4-Bromofluorobenzene (S)	101	%	54-126		1	11/02/19 08:30	11/04/19 19:26	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.6	%	0.10	0.10	1		11/05/19 15:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-101-0.5-1.5 Lab ID: 40198063016 Collected: 10/25/19 05:47 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.3J	mg/kg	5.7	1.7	1	10/30/19 06:20	11/02/19 23:38	7440-38-2	
Barium	50.5	mg/kg	0.58	0.17	1	10/30/19 06:20	11/02/19 23:38	7440-39-3	
Cadmium	0.36J	mg/kg	0.58	0.15	1	10/30/19 06:20	11/02/19 23:38	7440-43-9	
Chromium	15.4	mg/kg	1.2	0.32	1	10/30/19 06:20	11/02/19 23:38	7440-47-3	
Lead	39.1	mg/kg	2.3	0.70	1	10/30/19 06:20	11/02/19 23:38	7439-92-1	
Selenium	<1.5	mg/kg	5.1	1.5	1	10/30/19 06:20	11/02/19 23:38	7782-49-2	
Silver	<0.36	mg/kg	1.2	0.36	1	10/30/19 06:20	11/02/19 23:38	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.039J	mg/kg	0.041	0.012	1	11/06/19 08:34	11/06/19 13:01	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	3.0J	ug/kg	20.3	2.6	1	10/31/19 08:40	11/01/19 12:53	83-32-9	
Acenaphthylene	<2.6	ug/kg	20.3	2.6	1	10/31/19 08:40	11/01/19 12:53	208-96-8	
Anthracene	9.8J	ug/kg	20.3	2.5	1	10/31/19 08:40	11/01/19 12:53	120-12-7	
Benzo(a)anthracene	40.0	ug/kg	20.3	2.6	1	10/31/19 08:40	11/01/19 12:53	56-55-3	
Benzo(a)pyrene	64.8	ug/kg	20.3	2.3	1	10/31/19 08:40	11/01/19 12:53	50-32-8	
Benzo(b)fluoranthene	64.5	ug/kg	20.3	2.8	1	10/31/19 08:40	11/01/19 12:53	205-99-2	
Benzo(g,h,i)perylene	44.3	ug/kg	20.3	3.6	1	10/31/19 08:40	11/01/19 12:53	191-24-2	
Benzo(k)fluoranthene	29.2	ug/kg	20.3	2.6	1	10/31/19 08:40	11/01/19 12:53	207-08-9	
Chrysene	48.1	ug/kg	20.3	3.8	1	10/31/19 08:40	11/01/19 12:53	218-01-9	
Dibenz(a,h)anthracene	9.6J	ug/kg	20.3	2.8	1	10/31/19 08:40	11/01/19 12:53	53-70-3	
Fluoranthene	112	ug/kg	20.3	2.4	1	10/31/19 08:40	11/01/19 12:53	206-44-0	
Fluorene	2.6J	ug/kg	20.3	2.4	1	10/31/19 08:40	11/01/19 12:53	86-73-7	
Indeno(1,2,3-cd)pyrene	34.8	ug/kg	20.3	4.2	1	10/31/19 08:40	11/01/19 12:53	193-39-5	
1-Methylnaphthalene	<3.0	ug/kg	20.3	3.0	1	10/31/19 08:40	11/01/19 12:53	90-12-0	
2-Methylnaphthalene	<3.0	ug/kg	20.3	3.0	1	10/31/19 08:40	11/01/19 12:53	91-57-6	
Naphthalene	3.2J	ug/kg	20.3	2.0	1	10/31/19 08:40	11/01/19 12:53	91-20-3	
Phenanthrene	51.8	ug/kg	20.3	2.3	1	10/31/19 08:40	11/01/19 12:53	85-01-8	
Pyrene	78.0	ug/kg	20.3	3.0	1	10/31/19 08:40	11/01/19 12:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%	28-99		1	10/31/19 08:40	11/01/19 12:53	321-60-8	
Terphenyl-d14 (S)	56	%	10-107		1	10/31/19 08:40	11/01/19 12:53	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 19:49	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-101-0.5-1.5** Lab ID: **40198063016** Collected: 10/25/19 05:47 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 19:49	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 19:49	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 19:49	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 19:49	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 19:49	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	75-69-4	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-101-0.5-1.5 **Lab ID: 40198063016** Collected: 10/25/19 05:47 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 19:49	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 19:49	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 19:49	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	114	%	57-146		1	11/02/19 08:30	11/04/19 19:49	1868-53-7	
Toluene-d8 (S)	115	%	64-134		1	11/02/19 08:30	11/04/19 19:49	2037-26-5	
4-Bromofluorobenzene (S)	104	%	54-126		1	11/02/19 08:30	11/04/19 19:49	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.7	%	0.10	0.10	1		11/04/19 16:19		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-102-0.5-1.5 **Lab ID: 40198063017** Collected: 10/25/19 15:00 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	2.9J	mg/kg	5.7	1.7	1	10/30/19 06:20	11/02/19 23:41	7440-38-2	
Barium	111	mg/kg	0.59	0.18	1	10/30/19 06:20	11/02/19 23:41	7440-39-3	
Cadmium	0.20J	mg/kg	0.59	0.16	1	10/30/19 06:20	11/02/19 23:41	7440-43-9	
Chromium	33.3	mg/kg	1.2	0.33	1	10/30/19 06:20	11/02/19 23:41	7440-47-3	
Lead	11.2	mg/kg	2.4	0.71	1	10/30/19 06:20	11/02/19 23:41	7439-92-1	
Selenium	<1.5	mg/kg	5.1	1.5	1	10/30/19 06:20	11/02/19 23:41	7782-49-2	
Silver	<0.72	mg/kg	2.4	0.72	2	10/30/19 06:20	11/05/19 12:57	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.018J	mg/kg	0.040	0.012	1	11/06/19 08:34	11/06/19 13:04	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.7	ug/kg	20.5	2.7	1	11/01/19 09:00	11/01/19 14:38	83-32-9	
Acenaphthylene	7.7J	ug/kg	20.5	2.6	1	11/01/19 09:00	11/01/19 14:38	208-96-8	
Anthracene	6.6J	ug/kg	20.5	2.5	1	11/01/19 09:00	11/01/19 14:38	120-12-7	
Benzo(a)anthracene	17.3J	ug/kg	20.5	2.6	1	11/01/19 09:00	11/01/19 14:38	56-55-3	
Benzo(a)pyrene	23.3	ug/kg	20.5	2.3	1	11/01/19 09:00	11/01/19 14:38	50-32-8	
Benzo(b)fluoranthene	43.0	ug/kg	20.5	2.8	1	11/01/19 09:00	11/01/19 14:38	205-99-2	
Benzo(g,h,i)perylene	23.1	ug/kg	20.5	3.6	1	11/01/19 09:00	11/01/19 14:38	191-24-2	
Benzo(k)fluoranthene	14.3J	ug/kg	20.5	2.6	1	11/01/19 09:00	11/01/19 14:38	207-08-9	
Chrysene	27.5	ug/kg	20.5	3.9	1	11/01/19 09:00	11/01/19 14:38	218-01-9	
Dibenz(a,h)anthracene	6.2J	ug/kg	20.5	2.8	1	11/01/19 09:00	11/01/19 14:38	53-70-3	
Fluoranthene	33.5	ug/kg	20.5	2.4	1	11/01/19 09:00	11/01/19 14:38	206-44-0	
Fluorene	<2.5	ug/kg	20.5	2.5	1	11/01/19 09:00	11/01/19 14:38	86-73-7	
Indeno(1,2,3-cd)pyrene	19.3J	ug/kg	20.5	4.3	1	11/01/19 09:00	11/01/19 14:38	193-39-5	
1-Methylnaphthalene	6.7J	ug/kg	20.5	3.0	1	11/01/19 09:00	11/01/19 14:38	90-12-0	
2-Methylnaphthalene	8.5J	ug/kg	20.5	3.0	1	11/01/19 09:00	11/01/19 14:38	91-57-6	
Naphthalene	10J	ug/kg	20.5	2.0	1	11/01/19 09:00	11/01/19 14:38	91-20-3	C4
Phenanthrene	16.9J	ug/kg	20.5	2.3	1	11/01/19 09:00	11/01/19 14:38	85-01-8	
Pyrene	26.6	ug/kg	20.5	3.0	1	11/01/19 09:00	11/01/19 14:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76	%	28-99		1	11/01/19 09:00	11/01/19 14:38	321-60-8	
Terphenyl-d14 (S)	63	%	10-107		1	11/01/19 09:00	11/01/19 14:38	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 20:12	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-102-0.5-1.5** Lab ID: **40198063017** Collected: 10/25/19 15:00 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 20:12	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 20:12	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 20:12	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 20:12	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	79-34-5	W
Tetrachloroethene	59.5J	ug/kg	73.6	30.6	1	11/02/19 08:30	11/04/19 20:12	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 20:12	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-102-0.5-1.5 **Lab ID: 40198063017** Collected: 10/25/19 15:00 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 20:12	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 20:12	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:12	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	110	%	57-146		1	11/02/19 08:30	11/04/19 20:12	1868-53-7	
Toluene-d8 (S)	113	%	64-134		1	11/02/19 08:30	11/04/19 20:12	2037-26-5	
4-Bromofluorobenzene (S)	102	%	54-126		1	11/02/19 08:30	11/04/19 20:12	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	18.4	%	0.10	0.10	1		11/04/19 16:19		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-102-19-20 **Lab ID: 40198063018** Collected: 10/25/19 15:12 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	2.0J	mg/kg	5.1	1.5	1	10/30/19 06:20	11/02/19 23:43	7440-38-2	
Barium	6.8	mg/kg	0.53	0.16	1	10/30/19 06:20	11/02/19 23:43	7440-39-3	
Cadmium	<0.14	mg/kg	0.53	0.14	1	10/30/19 06:20	11/02/19 23:43	7440-43-9	
Chromium	5.0	mg/kg	1.1	0.29	1	10/30/19 06:20	11/02/19 23:43	7440-47-3	
Lead	1.3J	mg/kg	2.1	0.63	1	10/30/19 06:20	11/02/19 23:43	7439-92-1	
Selenium	<1.4	mg/kg	4.6	1.4	1	10/30/19 06:20	11/02/19 23:43	7782-49-2	
Silver	<0.32	mg/kg	1.1	0.32	1	10/30/19 06:20	11/02/19 23:43	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.035	0.011	1	11/06/19 08:34	11/06/19 13:06	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.4	ug/kg	18.7	2.4	1	10/31/19 08:40	10/31/19 16:43	83-32-9	
Acenaphthylene	<2.4	ug/kg	18.7	2.4	1	10/31/19 08:40	10/31/19 16:43	208-96-8	
Anthracene	<2.3	ug/kg	18.7	2.3	1	10/31/19 08:40	10/31/19 16:43	120-12-7	
Benzo(a)anthracene	2.6J	ug/kg	18.7	2.4	1	10/31/19 08:40	10/31/19 16:43	56-55-3	
Benzo(a)pyrene	<2.1	ug/kg	18.7	2.1	1	10/31/19 08:40	10/31/19 16:43	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	18.7	2.6	1	10/31/19 08:40	10/31/19 16:43	205-99-2	
Benzo(g,h,i)perylene	<3.3	ug/kg	18.7	3.3	1	10/31/19 08:40	10/31/19 16:43	191-24-2	
Benzo(k)fluoranthene	<2.4	ug/kg	18.7	2.4	1	10/31/19 08:40	10/31/19 16:43	207-08-9	
Chrysene	<3.5	ug/kg	18.7	3.5	1	10/31/19 08:40	10/31/19 16:43	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	18.7	2.6	1	10/31/19 08:40	10/31/19 16:43	53-70-3	
Fluoranthene	<2.2	ug/kg	18.7	2.2	1	10/31/19 08:40	10/31/19 16:43	206-44-0	
Fluorene	<2.2	ug/kg	18.7	2.2	1	10/31/19 08:40	10/31/19 16:43	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.9	ug/kg	18.7	3.9	1	10/31/19 08:40	10/31/19 16:43	193-39-5	
1-Methylnaphthalene	<2.7	ug/kg	18.7	2.7	1	10/31/19 08:40	10/31/19 16:43	90-12-0	
2-Methylnaphthalene	<2.7	ug/kg	18.7	2.7	1	10/31/19 08:40	10/31/19 16:43	91-57-6	
Naphthalene	2.0J	ug/kg	18.7	1.8	1	10/31/19 08:40	10/31/19 16:43	91-20-3	
Phenanthrene	<2.1	ug/kg	18.7	2.1	1	10/31/19 08:40	10/31/19 16:43	85-01-8	
Pyrene	<2.8	ug/kg	18.7	2.8	1	10/31/19 08:40	10/31/19 16:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	28-99		1	10/31/19 08:40	10/31/19 16:43	321-60-8	
Terphenyl-d14 (S)	63	%	10-107		1	10/31/19 08:40	10/31/19 16:43	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 20:35	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-102-19-20 **Lab ID: 40198063018** Collected: 10/25/19 15:12 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 20:35	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 20:35	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 20:35	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 20:35	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 20:35	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-102-19-20 **Lab ID: 40198063018** Collected: 10/25/19 15:12 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 20:35	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 20:35	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:35	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	57-146		1	11/02/19 08:30	11/04/19 20:35	1868-53-7	
Toluene-d8 (S)	103	%	64-134		1	11/02/19 08:30	11/04/19 20:35	2037-26-5	
4-Bromofluorobenzene (S)	94	%	54-126		1	11/02/19 08:30	11/04/19 20:35	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.8	%	0.10	0.10	1		11/04/19 13:43		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-102-19-20D **Lab ID: 40198063019** Collected: 10/25/19 15:12 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	1.6J	mg/kg	5.1	1.5	1	10/30/19 06:20	11/02/19 23:46	7440-38-2	
Barium	6.8	mg/kg	0.52	0.16	1	10/30/19 06:20	11/02/19 23:46	7440-39-3	
Cadmium	<0.14	mg/kg	0.52	0.14	1	10/30/19 06:20	11/02/19 23:46	7440-43-9	
Chromium	4.3	mg/kg	1.0	0.29	1	10/30/19 06:20	11/02/19 23:46	7440-47-3	
Lead	1.0J	mg/kg	2.1	0.63	1	10/30/19 06:20	11/02/19 23:46	7439-92-1	
Selenium	<1.4	mg/kg	4.6	1.4	1	10/30/19 06:20	11/02/19 23:46	7782-49-2	
Silver	<0.32	mg/kg	1.0	0.32	1	10/30/19 06:20	11/02/19 23:46	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.038	0.011	1	11/06/19 08:34	11/06/19 13:08	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.4	ug/kg	18.7	2.4	1	10/31/19 08:40	10/31/19 12:41	83-32-9	
Acenaphthylene	<2.4	ug/kg	18.7	2.4	1	10/31/19 08:40	10/31/19 12:41	208-96-8	
Anthracene	<2.3	ug/kg	18.7	2.3	1	10/31/19 08:40	10/31/19 12:41	120-12-7	
Benzo(a)anthracene	<2.4	ug/kg	18.7	2.4	1	10/31/19 08:40	10/31/19 12:41	56-55-3	
Benzo(a)pyrene	<2.1	ug/kg	18.7	2.1	1	10/31/19 08:40	10/31/19 12:41	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	18.7	2.6	1	10/31/19 08:40	10/31/19 12:41	205-99-2	
Benzo(g,h,i)perylene	<3.3	ug/kg	18.7	3.3	1	10/31/19 08:40	10/31/19 12:41	191-24-2	
Benzo(k)fluoranthene	<2.4	ug/kg	18.7	2.4	1	10/31/19 08:40	10/31/19 12:41	207-08-9	
Chrysene	<3.5	ug/kg	18.7	3.5	1	10/31/19 08:40	10/31/19 12:41	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	18.7	2.6	1	10/31/19 08:40	10/31/19 12:41	53-70-3	
Fluoranthene	<2.2	ug/kg	18.7	2.2	1	10/31/19 08:40	10/31/19 12:41	206-44-0	
Fluorene	<2.2	ug/kg	18.7	2.2	1	10/31/19 08:40	10/31/19 12:41	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.9	ug/kg	18.7	3.9	1	10/31/19 08:40	10/31/19 12:41	193-39-5	
1-Methylnaphthalene	<2.7	ug/kg	18.7	2.7	1	10/31/19 08:40	10/31/19 12:41	90-12-0	
2-Methylnaphthalene	<2.7	ug/kg	18.7	2.7	1	10/31/19 08:40	10/31/19 12:41	91-57-6	
Naphthalene	2.2J	ug/kg	18.7	1.8	1	10/31/19 08:40	10/31/19 12:41	91-20-3	
Phenanthrene	<2.1	ug/kg	18.7	2.1	1	10/31/19 08:40	10/31/19 12:41	85-01-8	
Pyrene	<2.7	ug/kg	18.7	2.7	1	10/31/19 08:40	10/31/19 12:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	28-99		1	10/31/19 08:40	10/31/19 12:41	321-60-8	
Terphenyl-d14 (S)	65	%	10-107		1	10/31/19 08:40	10/31/19 12:41	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 20:58	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-102-19-20D** Lab ID: **40198063019** Collected: 10/25/19 15:12 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 20:58	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 20:58	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 20:58	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 20:58	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 20:58	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-102-19-20D **Lab ID: 40198063019** Collected: 10/25/19 15:12 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 20:58	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 20:58	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 20:58	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	57-146		1	11/02/19 08:30	11/04/19 20:58	1868-53-7	
Toluene-d8 (S)	107	%	64-134		1	11/02/19 08:30	11/04/19 20:58	2037-26-5	
4-Bromofluorobenzene (S)	95	%	54-126		1	11/02/19 08:30	11/04/19 20:58	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	10.6	%	0.10	0.10	1		11/04/19 18:00		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-103-18-20** Lab ID: **40198063020** Collected: 10/25/19 05:18 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 21:21	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 21:21	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 21:21	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 21:21	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 21:21	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-103-18-20 **Lab ID: 40198063020** Collected: 10/25/19 05:18 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	79-34-5	W
Tetrachloroethene	277	ug/kg	68.2	28.4	1	11/02/19 08:30	11/04/19 21:21	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 21:21	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 21:21	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 21:21	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:21	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	111	%	57-146		1	11/02/19 08:30	11/04/19 21:21	1868-53-7	
Toluene-d8 (S)	111	%	64-134		1	11/02/19 08:30	11/04/19 21:21	2037-26-5	
4-Bromofluorobenzene (S)	99	%	54-126		1	11/02/19 08:30	11/04/19 21:21	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.0	%	0.10	0.10	1		11/04/19 18:00		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-103-0.5-1.5** Lab ID: **40198063021** Collected: 10/25/19 05:15 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	2.1J	mg/kg	5.6	1.7	1	10/30/19 06:20	11/02/19 23:48	7440-38-2	
Barium	73.3	mg/kg	0.57	0.17	1	10/30/19 06:20	11/02/19 23:48	7440-39-3	
Cadmium	0.17J	mg/kg	0.57	0.15	1	10/30/19 06:20	11/02/19 23:48	7440-43-9	
Chromium	27.8	mg/kg	1.1	0.32	1	10/30/19 06:20	11/02/19 23:48	7440-47-3	
Lead	23.3	mg/kg	2.3	0.69	1	10/30/19 06:20	11/02/19 23:48	7439-92-1	
Selenium	<1.5	mg/kg	5.0	1.5	1	10/30/19 06:20	11/02/19 23:48	7782-49-2	
Silver	<0.71	mg/kg	2.3	0.71	2	10/30/19 06:20	11/05/19 12:59	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.015J	mg/kg	0.040	0.012	1	11/06/19 08:34	11/06/19 13:11	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	20.2	2.6	1	10/31/19 08:40	10/31/19 17:00	83-32-9	
Acenaphthylene	<2.5	ug/kg	20.2	2.5	1	10/31/19 08:40	10/31/19 17:00	208-96-8	
Anthracene	<2.5	ug/kg	20.2	2.5	1	10/31/19 08:40	10/31/19 17:00	120-12-7	
Benzo(a)anthracene	4.3J	ug/kg	20.2	2.6	1	10/31/19 08:40	10/31/19 17:00	56-55-3	
Benzo(a)pyrene	3.4J	ug/kg	20.2	2.3	1	10/31/19 08:40	10/31/19 17:00	50-32-8	
Benzo(b)fluoranthene	5.0J	ug/kg	20.2	2.8	1	10/31/19 08:40	10/31/19 17:00	205-99-2	
Benzo(g,h,i)perylene	3.7J	ug/kg	20.2	3.5	1	10/31/19 08:40	10/31/19 17:00	191-24-2	
Benzo(k)fluoranthene	2.8J	ug/kg	20.2	2.6	1	10/31/19 08:40	10/31/19 17:00	207-08-9	
Chrysene	4.5J	ug/kg	20.2	3.8	1	10/31/19 08:40	10/31/19 17:00	218-01-9	
Dibenz(a,h)anthracene	<2.8	ug/kg	20.2	2.8	1	10/31/19 08:40	10/31/19 17:00	53-70-3	
Fluoranthene	5.9J	ug/kg	20.2	2.4	1	10/31/19 08:40	10/31/19 17:00	206-44-0	
Fluorene	<2.4	ug/kg	20.2	2.4	1	10/31/19 08:40	10/31/19 17:00	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.2	ug/kg	20.2	4.2	1	10/31/19 08:40	10/31/19 17:00	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	20.2	2.9	1	10/31/19 08:40	10/31/19 17:00	90-12-0	
2-Methylnaphthalene	<2.9	ug/kg	20.2	2.9	1	10/31/19 08:40	10/31/19 17:00	91-57-6	
Naphthalene	<2.0	ug/kg	20.2	2.0	1	10/31/19 08:40	10/31/19 17:00	91-20-3	
Phenanthrene	<2.3	ug/kg	20.2	2.3	1	10/31/19 08:40	10/31/19 17:00	85-01-8	
Pyrene	4.2J	ug/kg	20.2	3.0	1	10/31/19 08:40	10/31/19 17:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	28-99		1	10/31/19 08:40	10/31/19 17:00	321-60-8	
Terphenyl-d14 (S)	63	%	10-107		1	10/31/19 08:40	10/31/19 17:00	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 21:44	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	56-23-5	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-103-0.5-1.5 Lab ID: 40198063021 Collected: 10/25/19 05:15 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 21:44	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 21:44	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 21:44	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 21:44	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 21:44	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-103-0.5-1.5 **Lab ID: 40198063021** Collected: 10/25/19 05:15 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 21:44	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 21:44	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 21:44	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	100	%	57-146		1	11/02/19 08:30	11/04/19 21:44	1868-53-7	
Toluene-d8 (S)	99	%	64-134		1	11/02/19 08:30	11/04/19 21:44	2037-26-5	
4-Bromofluorobenzene (S)	90	%	54-126		1	11/02/19 08:30	11/04/19 21:44	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.3	%	0.10	0.10	1		11/04/19 18:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-103-12-14 Lab ID: 40198063022 Collected: 10/25/19 05:10 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.9J	mg/kg	5.5	1.7	1	10/30/19 06:20	11/02/19 23:50	7440-38-2	
Barium	55.3	mg/kg	0.57	0.17	1	10/30/19 06:20	11/02/19 23:50	7440-39-3	
Cadmium	<0.15	mg/kg	0.57	0.15	1	10/30/19 06:20	11/02/19 23:50	7440-43-9	
Chromium	21.0	mg/kg	1.1	0.32	1	10/30/19 06:20	11/02/19 23:50	7440-47-3	
Lead	4.1	mg/kg	2.3	0.68	1	10/30/19 06:20	11/02/19 23:50	7439-92-1	
Selenium	<1.5	mg/kg	5.0	1.5	1	10/30/19 06:20	11/02/19 23:50	7782-49-2	
Silver	<0.70	mg/kg	2.3	0.70	2	10/30/19 06:20	11/05/19 13:02	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.012	mg/kg	0.038	0.012	1	11/06/19 08:34	11/06/19 13:18	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.5	ug/kg	19.0	2.5	1	10/31/19 08:40	10/31/19 17:17	83-32-9	
Acenaphthylene	<2.4	ug/kg	19.0	2.4	1	10/31/19 08:40	10/31/19 17:17	208-96-8	
Anthracene	<2.4	ug/kg	19.0	2.4	1	10/31/19 08:40	10/31/19 17:17	120-12-7	
Benzo(a)anthracene	<2.5	ug/kg	19.0	2.5	1	10/31/19 08:40	10/31/19 17:17	56-55-3	
Benzo(a)pyrene	<2.2	ug/kg	19.0	2.2	1	10/31/19 08:40	10/31/19 17:17	50-32-8	
Benzo(b)fluoranthene	<2.6	ug/kg	19.0	2.6	1	10/31/19 08:40	10/31/19 17:17	205-99-2	
Benzo(g,h,i)perylene	<3.3	ug/kg	19.0	3.3	1	10/31/19 08:40	10/31/19 17:17	191-24-2	
Benzo(k)fluoranthene	<2.4	ug/kg	19.0	2.4	1	10/31/19 08:40	10/31/19 17:17	207-08-9	
Chrysene	<3.6	ug/kg	19.0	3.6	1	10/31/19 08:40	10/31/19 17:17	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	19.0	2.6	1	10/31/19 08:40	10/31/19 17:17	53-70-3	
Fluoranthene	<2.3	ug/kg	19.0	2.3	1	10/31/19 08:40	10/31/19 17:17	206-44-0	
Fluorene	<2.3	ug/kg	19.0	2.3	1	10/31/19 08:40	10/31/19 17:17	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.0	ug/kg	19.0	4.0	1	10/31/19 08:40	10/31/19 17:17	193-39-5	
1-Methylnaphthalene	<2.8	ug/kg	19.0	2.8	1	10/31/19 08:40	10/31/19 17:17	90-12-0	
2-Methylnaphthalene	<2.8	ug/kg	19.0	2.8	1	10/31/19 08:40	10/31/19 17:17	91-57-6	
Naphthalene	<1.9	ug/kg	19.0	1.9	1	10/31/19 08:40	10/31/19 17:17	91-20-3	
Phenanthrene	<2.2	ug/kg	19.0	2.2	1	10/31/19 08:40	10/31/19 17:17	85-01-8	
Pyrene	<2.8	ug/kg	19.0	2.8	1	10/31/19 08:40	10/31/19 17:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	84	%	28-99		1	10/31/19 08:40	10/31/19 17:17	321-60-8	
Terphenyl-d14 (S)	80	%	10-107		1	10/31/19 08:40	10/31/19 17:17	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 22:07	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-103-12-14 Lab ID: 40198063022 Collected: 10/25/19 05:10 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 22:07	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 22:07	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 22:07	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 22:07	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 22:07	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-103-12-14 **Lab ID: 40198063022** Collected: 10/25/19 05:10 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 22:07	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 22:07	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:07	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	111	%	57-146		1	11/02/19 08:30	11/04/19 22:07	1868-53-7	
Toluene-d8 (S)	114	%	64-134		1	11/02/19 08:30	11/04/19 22:07	2037-26-5	
4-Bromofluorobenzene (S)	101	%	54-126		1	11/02/19 08:30	11/04/19 22:07	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	12.4	%	0.10	0.10	1		11/04/19 18:00		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-104-0.5-1.5** Lab ID: **40198063023** Collected: 10/25/19 14:15 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.2J	mg/kg	5.8	1.7	1	10/30/19 06:20	11/02/19 23:58	7440-38-2	
Barium	63.7	mg/kg	0.59	0.18	1	10/30/19 06:20	11/02/19 23:58	7440-39-3	
Cadmium	<0.16	mg/kg	0.59	0.16	1	10/30/19 06:20	11/02/19 23:58	7440-43-9	
Chromium	20.4	mg/kg	1.2	0.33	1	10/30/19 06:20	11/02/19 23:58	7440-47-3	
Lead	5.0	mg/kg	2.4	0.71	1	10/30/19 06:20	11/02/19 23:58	7439-92-1	
Selenium	<1.5	mg/kg	5.2	1.5	1	10/30/19 06:20	11/02/19 23:58	7782-49-2	
Silver	<0.73	mg/kg	2.4	0.73	2	10/30/19 06:20	11/05/19 13:04	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.013J	mg/kg	0.040	0.012	1	11/06/19 08:34	11/06/19 13:20	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	19.9	2.6	1	10/31/19 08:40	11/01/19 13:11	83-32-9	
Acenaphthylene	<2.5	ug/kg	19.9	2.5	1	10/31/19 08:40	11/01/19 13:11	208-96-8	
Anthracene	<2.5	ug/kg	19.9	2.5	1	10/31/19 08:40	11/01/19 13:11	120-12-7	
Benzo(a)anthracene	6.9J	ug/kg	19.9	2.6	1	10/31/19 08:40	11/01/19 13:11	56-55-3	
Benzo(a)pyrene	15.2J	ug/kg	19.9	2.3	1	10/31/19 08:40	11/01/19 13:11	50-32-8	
Benzo(b)fluoranthene	12.3J	ug/kg	19.9	2.8	1	10/31/19 08:40	11/01/19 13:11	205-99-2	
Benzo(g,h,i)perylene	12.0J	ug/kg	19.9	3.5	1	10/31/19 08:40	11/01/19 13:11	191-24-2	
Benzo(k)fluoranthene	5.4J	ug/kg	19.9	2.5	1	10/31/19 08:40	11/01/19 13:11	207-08-9	
Chrysene	9.4J	ug/kg	19.9	3.8	1	10/31/19 08:40	11/01/19 13:11	218-01-9	
Dibenz(a,h)anthracene	4.2J	ug/kg	19.9	2.8	1	10/31/19 08:40	11/01/19 13:11	53-70-3	
Fluoranthene	6.6J	ug/kg	19.9	2.4	1	10/31/19 08:40	11/01/19 13:11	206-44-0	
Fluorene	<2.4	ug/kg	19.9	2.4	1	10/31/19 08:40	11/01/19 13:11	86-73-7	
Indeno(1,2,3-cd)pyrene	6.8J	ug/kg	19.9	4.1	1	10/31/19 08:40	11/01/19 13:11	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	19.9	2.9	1	10/31/19 08:40	11/01/19 13:11	90-12-0	
2-Methylnaphthalene	<2.9	ug/kg	19.9	2.9	1	10/31/19 08:40	11/01/19 13:11	91-57-6	
Naphthalene	<1.9	ug/kg	19.9	1.9	1	10/31/19 08:40	11/01/19 13:11	91-20-3	
Phenanthrene	<2.3	ug/kg	19.9	2.3	1	10/31/19 08:40	11/01/19 13:11	85-01-8	
Pyrene	8.3J	ug/kg	19.9	2.9	1	10/31/19 08:40	11/01/19 13:11	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	77	%	28-99		1	10/31/19 08:40	11/01/19 13:11	321-60-8	
Terphenyl-d14 (S)	58	%	10-107		1	10/31/19 08:40	11/01/19 13:11	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 22:31	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-104-0.5-1.5 **Lab ID: 40198063023** Collected: 10/25/19 14:15 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 22:31	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 22:31	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 22:31	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 22:31	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	79-34-5	W
Tetrachloroethene	30.1J	ug/kg	71.6	29.8	1	11/02/19 08:30	11/04/19 22:31	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 22:31	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-104-0.5-1.5 **Lab ID: 40198063023** Collected: 10/25/19 14:15 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 22:31	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 22:31	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:31	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	111	%	57-146		1	11/02/19 08:30	11/04/19 22:31	1868-53-7	
Toluene-d8 (S)	112	%	64-134		1	11/02/19 08:30	11/04/19 22:31	2037-26-5	
4-Bromofluorobenzene (S)	100	%	54-126		1	11/02/19 08:30	11/04/19 22:31	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.2	%	0.10	0.10	1		11/04/19 18:01		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-104-18-19 **Lab ID: 40198063024** Collected: 10/25/19 14:22 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<2.9	mg/kg	9.7	2.9	2	10/30/19 06:20	11/06/19 09:58	7440-38-2	D3
Barium	6.4	mg/kg	0.50	0.15	1	10/30/19 06:20	11/03/19 00:00	7440-39-3	
Cadmium	<0.13	mg/kg	0.50	0.13	1	10/30/19 06:20	11/03/19 00:00	7440-43-9	
Chromium	4.8	mg/kg	0.99	0.28	1	10/30/19 06:20	11/03/19 00:00	7440-47-3	
Lead	1.0J	mg/kg	2.0	0.59	1	10/30/19 06:20	11/03/19 00:00	7439-92-1	
Selenium	<1.3	mg/kg	4.3	1.3	1	10/30/19 06:20	11/03/19 00:00	7782-49-2	
Silver	<0.30	mg/kg	0.99	0.30	1	10/30/19 06:20	11/03/19 00:00	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.036	0.011	1	11/06/19 09:30	11/06/19 13:31	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.3	ug/kg	17.4	2.3	1	10/31/19 08:40	10/31/19 17:35	83-32-9	
Acenaphthylene	<2.2	ug/kg	17.4	2.2	1	10/31/19 08:40	10/31/19 17:35	208-96-8	
Anthracene	<2.2	ug/kg	17.4	2.2	1	10/31/19 08:40	10/31/19 17:35	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	17.4	2.2	1	10/31/19 08:40	10/31/19 17:35	56-55-3	
Benzo(a)pyrene	<2.0	ug/kg	17.4	2.0	1	10/31/19 08:40	10/31/19 17:35	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	17.4	2.4	1	10/31/19 08:40	10/31/19 17:35	205-99-2	
Benzo(g,h,i)perylene	<3.0	ug/kg	17.4	3.0	1	10/31/19 08:40	10/31/19 17:35	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	17.4	2.2	1	10/31/19 08:40	10/31/19 17:35	207-08-9	
Chrysene	<3.3	ug/kg	17.4	3.3	1	10/31/19 08:40	10/31/19 17:35	218-01-9	
Dibenz(a,h)anthracene	<2.4	ug/kg	17.4	2.4	1	10/31/19 08:40	10/31/19 17:35	53-70-3	
Fluoranthene	<2.1	ug/kg	17.4	2.1	1	10/31/19 08:40	10/31/19 17:35	206-44-0	
Fluorene	<2.1	ug/kg	17.4	2.1	1	10/31/19 08:40	10/31/19 17:35	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.6	ug/kg	17.4	3.6	1	10/31/19 08:40	10/31/19 17:35	193-39-5	
1-Methylnaphthalene	<2.5	ug/kg	17.4	2.5	1	10/31/19 08:40	10/31/19 17:35	90-12-0	
2-Methylnaphthalene	<2.5	ug/kg	17.4	2.5	1	10/31/19 08:40	10/31/19 17:35	91-57-6	
Naphthalene	<1.7	ug/kg	17.4	1.7	1	10/31/19 08:40	10/31/19 17:35	91-20-3	
Phenanthrene	<2.0	ug/kg	17.4	2.0	1	10/31/19 08:40	10/31/19 17:35	85-01-8	
Pyrene	<2.6	ug/kg	17.4	2.6	1	10/31/19 08:40	10/31/19 17:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	28-99		1	10/31/19 08:40	10/31/19 17:35	321-60-8	
Terphenyl-d14 (S)	62	%	10-107		1	10/31/19 08:40	10/31/19 17:35	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 22:54	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-104-18-19 Lab ID: 40198063024 Collected: 10/25/19 14:22 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 22:54	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 22:54	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 22:54	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 22:54	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	79-34-5	W
Tetrachloroethene	63.7	ug/kg	62.4	26.0	1	11/02/19 08:30	11/04/19 22:54	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 22:54	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-104-18-19 **Lab ID: 40198063024** Collected: 10/25/19 14:22 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 22:54	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 22:54	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 22:54	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	116	%	57-146		1	11/02/19 08:30	11/04/19 22:54	1868-53-7	
Toluene-d8 (S)	119	%	64-134		1	11/02/19 08:30	11/04/19 22:54	2037-26-5	
4-Bromofluorobenzene (S)	103	%	54-126		1	11/02/19 08:30	11/04/19 22:54	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	3.8	%	0.10	0.10	1		11/04/19 18:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-105-0.5-1.5 **Lab ID:** 40198063025 Collected: 10/25/19 11:15 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	2.1J	mg/kg	5.9	1.8	1	10/30/19 06:20	11/03/19 00:03	7440-38-2	
Barium	110	mg/kg	0.60	0.18	1	10/30/19 06:20	11/03/19 00:03	7440-39-3	
Cadmium	0.17J	mg/kg	0.60	0.16	1	10/30/19 06:20	11/03/19 00:03	7440-43-9	
Chromium	35.9	mg/kg	1.2	0.33	1	10/30/19 06:20	11/03/19 00:03	7440-47-3	
Lead	9.1	mg/kg	2.4	0.72	1	10/30/19 06:20	11/03/19 00:03	7439-92-1	
Selenium	<1.6	mg/kg	5.2	1.6	1	10/30/19 06:20	11/03/19 00:03	7782-49-2	
Silver	<0.74	mg/kg	2.4	0.74	2	10/30/19 06:20	11/05/19 13:07	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.022J	mg/kg	0.037	0.011	1	11/06/19 09:30	11/06/19 13:38	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	20.0	2.6	1	11/01/19 09:00	11/01/19 14:55	83-32-9	
Acenaphthylene	<2.5	ug/kg	20.0	2.5	1	11/01/19 09:00	11/01/19 14:55	208-96-8	
Anthracene	<2.5	ug/kg	20.0	2.5	1	11/01/19 09:00	11/01/19 14:55	120-12-7	
Benzo(a)anthracene	<2.6	ug/kg	20.0	2.6	1	11/01/19 09:00	11/01/19 14:55	56-55-3	
Benzo(a)pyrene	<2.3	ug/kg	20.0	2.3	1	11/01/19 09:00	11/01/19 14:55	50-32-8	
Benzo(b)fluoranthene	<2.8	ug/kg	20.0	2.8	1	11/01/19 09:00	11/01/19 14:55	205-99-2	
Benzo(g,h,i)perylene	<3.5	ug/kg	20.0	3.5	1	11/01/19 09:00	11/01/19 14:55	191-24-2	
Benzo(k)fluoranthene	<2.6	ug/kg	20.0	2.6	1	11/01/19 09:00	11/01/19 14:55	207-08-9	
Chrysene	<3.8	ug/kg	20.0	3.8	1	11/01/19 09:00	11/01/19 14:55	218-01-9	
Dibenz(a,h)anthracene	<2.8	ug/kg	20.0	2.8	1	11/01/19 09:00	11/01/19 14:55	53-70-3	
Fluoranthene	<2.4	ug/kg	20.0	2.4	1	11/01/19 09:00	11/01/19 14:55	206-44-0	
Fluorene	<2.4	ug/kg	20.0	2.4	1	11/01/19 09:00	11/01/19 14:55	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.2	ug/kg	20.0	4.2	1	11/01/19 09:00	11/01/19 14:55	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	20.0	2.9	1	11/01/19 09:00	11/01/19 14:55	90-12-0	
2-Methylnaphthalene	<2.9	ug/kg	20.0	2.9	1	11/01/19 09:00	11/01/19 14:55	91-57-6	
Naphthalene	<2.0	ug/kg	20.0	2.0	1	11/01/19 09:00	11/01/19 14:55	91-20-3	
Phenanthrene	<2.3	ug/kg	20.0	2.3	1	11/01/19 09:00	11/01/19 14:55	85-01-8	
Pyrene	<2.9	ug/kg	20.0	2.9	1	11/01/19 09:00	11/01/19 14:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	28-99		1	11/01/19 09:00	11/01/19 14:55	321-60-8	
Terphenyl-d14 (S)	60	%	10-107		1	11/01/19 09:00	11/01/19 14:55	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 23:17	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-105-0.5-1.5 Lab ID: 40198063025 Collected: 10/25/19 11:15 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 23:17	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 23:17	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 23:17	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 23:17	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 23:17	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	75-69-4	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-105-0.5-1.5 **Lab ID: 40198063025** Collected: 10/25/19 11:15 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 23:17	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 23:17	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:17	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	57-146		1	11/02/19 08:30	11/04/19 23:17	1868-53-7	
Toluene-d8 (S)	112	%	64-134		1	11/02/19 08:30	11/04/19 23:17	2037-26-5	
4-Bromofluorobenzene (S)	99	%	54-126		1	11/02/19 08:30	11/04/19 23:17	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.7	%	0.10	0.10	1		11/04/19 18:01		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-105-20-21 Lab ID: 40198063026 Collected: 10/25/19 13:57 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.4J	mg/kg	5.7	1.7	1	10/30/19 06:39	11/01/19 16:36	7440-38-2	
Barium	6.2	mg/kg	0.58	0.17	1	10/30/19 06:39	11/01/19 16:36	7440-39-3	
Cadmium	<0.15	mg/kg	0.58	0.15	1	10/30/19 06:39	11/01/19 16:36	7440-43-9	
Chromium	3.5	mg/kg	1.2	0.32	1	10/30/19 06:39	11/01/19 16:36	7440-47-3	
Lead	0.72J	mg/kg	2.3	0.70	1	10/30/19 06:39	11/01/19 16:36	7439-92-1	
Selenium	<1.5	mg/kg	5.1	1.5	1	10/30/19 06:39	11/01/19 16:36	7782-49-2	
Silver	<0.36	mg/kg	1.2	0.36	1	10/30/19 06:39	11/01/19 16:36	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.037	0.011	1	11/06/19 09:30	11/06/19 13:45	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	19.9	2.6	1	11/01/19 09:00	11/01/19 15:12	83-32-9	
Acenaphthylene	<2.5	ug/kg	19.9	2.5	1	11/01/19 09:00	11/01/19 15:12	208-96-8	
Anthracene	<2.5	ug/kg	19.9	2.5	1	11/01/19 09:00	11/01/19 15:12	120-12-7	
Benzo(a)anthracene	<2.6	ug/kg	19.9	2.6	1	11/01/19 09:00	11/01/19 15:12	56-55-3	
Benzo(a)pyrene	<2.3	ug/kg	19.9	2.3	1	11/01/19 09:00	11/01/19 15:12	50-32-8	
Benzo(b)fluoranthene	<2.8	ug/kg	19.9	2.8	1	11/01/19 09:00	11/01/19 15:12	205-99-2	
Benzo(g,h,i)perylene	<3.5	ug/kg	19.9	3.5	1	11/01/19 09:00	11/01/19 15:12	191-24-2	
Benzo(k)fluoranthene	<2.5	ug/kg	19.9	2.5	1	11/01/19 09:00	11/01/19 15:12	207-08-9	
Chrysene	<3.8	ug/kg	19.9	3.8	1	11/01/19 09:00	11/01/19 15:12	218-01-9	
Dibenz(a,h)anthracene	<2.8	ug/kg	19.9	2.8	1	11/01/19 09:00	11/01/19 15:12	53-70-3	
Fluoranthene	<2.4	ug/kg	19.9	2.4	1	11/01/19 09:00	11/01/19 15:12	206-44-0	
Fluorene	<2.4	ug/kg	19.9	2.4	1	11/01/19 09:00	11/01/19 15:12	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.1	ug/kg	19.9	4.1	1	11/01/19 09:00	11/01/19 15:12	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	19.9	2.9	1	11/01/19 09:00	11/01/19 15:12	90-12-0	
2-Methylnaphthalene	<2.9	ug/kg	19.9	2.9	1	11/01/19 09:00	11/01/19 15:12	91-57-6	
Naphthalene	<1.9	ug/kg	19.9	1.9	1	11/01/19 09:00	11/01/19 15:12	91-20-3	
Phenanthrene	<2.3	ug/kg	19.9	2.3	1	11/01/19 09:00	11/01/19 15:12	85-01-8	
Pyrene	<2.9	ug/kg	19.9	2.9	1	11/01/19 09:00	11/01/19 15:12	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	81	%	28-99		1	11/01/19 09:00	11/01/19 15:12	321-60-8	
Terphenyl-d14 (S)	72	%	10-107		1	11/01/19 09:00	11/01/19 15:12	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/04/19 23:40	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-105-20-21 Lab ID: 40198063026 Collected: 10/25/19 13:57 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/04/19 23:40	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/04/19 23:40	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/04/19 23:40	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/04/19 23:40	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/04/19 23:40	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-105-20-21 **Lab ID: 40198063026** Collected: 10/25/19 13:57 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/04/19 23:40	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/04/19 23:40	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/04/19 23:40	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	57-146		1	11/02/19 08:30	11/04/19 23:40	1868-53-7	
Toluene-d8 (S)	104	%	64-134		1	11/02/19 08:30	11/04/19 23:40	2037-26-5	
4-Bromofluorobenzene (S)	93	%	54-126		1	11/02/19 08:30	11/04/19 23:40	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.1	%	0.10	0.10	1		11/04/19 19:02		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-106-0.5-1.5** Lab ID: **40198063027** Collected: 10/25/19 13:23 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	2.7J	mg/kg	5.5	1.7	1	10/30/19 06:39	11/01/19 16:38	7440-38-2	
Barium	47.8	mg/kg	0.56	0.17	1	10/30/19 06:39	11/01/19 16:38	7440-39-3	
Cadmium	<0.15	mg/kg	0.56	0.15	1	10/30/19 06:39	11/01/19 16:38	7440-43-9	
Chromium	18.4	mg/kg	1.1	0.31	1	10/30/19 06:39	11/01/19 16:38	7440-47-3	
Lead	8.6	mg/kg	2.3	0.68	1	10/30/19 06:39	11/01/19 16:38	7439-92-1	
Selenium	<1.5	mg/kg	4.9	1.5	1	10/30/19 06:39	11/01/19 16:38	7782-49-2	
Silver	<0.35	mg/kg	1.1	0.35	1	10/30/19 06:39	11/01/19 16:38	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.015J	mg/kg	0.039	0.012	1	11/06/19 09:30	11/06/19 13:48	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	19.8	2.6	1	11/01/19 09:00	11/01/19 15:29	83-32-9	
Acenaphthylene	<2.5	ug/kg	19.8	2.5	1	11/01/19 09:00	11/01/19 15:29	208-96-8	
Anthracene	<2.5	ug/kg	19.8	2.5	1	11/01/19 09:00	11/01/19 15:29	120-12-7	
Benzo(a)anthracene	<2.6	ug/kg	19.8	2.6	1	11/01/19 09:00	11/01/19 15:29	56-55-3	
Benzo(a)pyrene	<2.3	ug/kg	19.8	2.3	1	11/01/19 09:00	11/01/19 15:29	50-32-8	
Benzo(b)fluoranthene	<2.8	ug/kg	19.8	2.8	1	11/01/19 09:00	11/01/19 15:29	205-99-2	
Benzo(g,h,i)perylene	<3.5	ug/kg	19.8	3.5	1	11/01/19 09:00	11/01/19 15:29	191-24-2	
Benzo(k)fluoranthene	<2.5	ug/kg	19.8	2.5	1	11/01/19 09:00	11/01/19 15:29	207-08-9	
Chrysene	<3.7	ug/kg	19.8	3.7	1	11/01/19 09:00	11/01/19 15:29	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	19.8	2.7	1	11/01/19 09:00	11/01/19 15:29	53-70-3	
Fluoranthene	<2.3	ug/kg	19.8	2.3	1	11/01/19 09:00	11/01/19 15:29	206-44-0	
Fluorene	<2.4	ug/kg	19.8	2.4	1	11/01/19 09:00	11/01/19 15:29	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.1	ug/kg	19.8	4.1	1	11/01/19 09:00	11/01/19 15:29	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	19.8	2.9	1	11/01/19 09:00	11/01/19 15:29	90-12-0	
2-Methylnaphthalene	<2.9	ug/kg	19.8	2.9	1	11/01/19 09:00	11/01/19 15:29	91-57-6	
Naphthalene	2.1J	ug/kg	19.8	1.9	1	11/01/19 09:00	11/01/19 15:29	91-20-3	
Phenanthrene	<2.3	ug/kg	19.8	2.3	1	11/01/19 09:00	11/01/19 15:29	85-01-8	
Pyrene	<2.9	ug/kg	19.8	2.9	1	11/01/19 09:00	11/01/19 15:29	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	82	%	28-99		1	11/01/19 09:00	11/01/19 15:29	321-60-8	
Terphenyl-d14 (S)	67	%	10-107		1	11/01/19 09:00	11/01/19 15:29	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/05/19 00:03	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-106-0.5-1.5 Lab ID: 40198063027 Collected: 10/25/19 13:23 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/05/19 00:03	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/05/19 00:03	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/05/19 00:03	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/05/19 00:03	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/05/19 00:03	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-106-0.5-1.5 **Lab ID: 40198063027** Collected: 10/25/19 13:23 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/05/19 00:03	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/05/19 00:03	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:03	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	57-146		1	11/02/19 08:30	11/05/19 00:03	1868-53-7	
Toluene-d8 (S)	106	%	64-134		1	11/02/19 08:30	11/05/19 00:03	2037-26-5	
4-Bromofluorobenzene (S)	93	%	54-126		1	11/02/19 08:30	11/05/19 00:03	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.9	%	0.10	0.10	1		11/04/19 19:02		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-106-10-12** Lab ID: **40198063028** Collected: 10/25/19 13:35 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<7.1	mg/kg	23.8	7.1	5	10/30/19 06:39	11/01/19 16:40	7440-38-2	D3
Barium	5.9	mg/kg	0.49	0.15	1	10/30/19 06:39	11/01/19 16:43	7440-39-3	
Cadmium	<0.13	mg/kg	0.49	0.13	1	10/30/19 06:39	11/01/19 16:43	7440-43-9	
Chromium	5.2	mg/kg	0.97	0.27	1	10/30/19 06:39	11/01/19 16:43	7440-47-3	
Lead	0.99J	mg/kg	1.9	0.58	1	10/30/19 06:39	11/01/19 16:43	7439-92-1	
Selenium	<1.3	mg/kg	4.3	1.3	1	10/30/19 06:39	11/01/19 16:43	7782-49-2	
Silver	<0.30	mg/kg	0.97	0.30	1	10/30/19 06:39	11/01/19 16:43	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.012J	mg/kg	0.035	0.010	1	11/06/19 09:30	11/06/19 13:50	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.2	ug/kg	17.0	2.2	1	11/01/19 09:00	11/01/19 15:47	83-32-9	
Acenaphthylene	<2.1	ug/kg	17.0	2.1	1	11/01/19 09:00	11/01/19 15:47	208-96-8	
Anthracene	<2.1	ug/kg	17.0	2.1	1	11/01/19 09:00	11/01/19 15:47	120-12-7	
Benzo(a)anthracene	<2.2	ug/kg	17.0	2.2	1	11/01/19 09:00	11/01/19 15:47	56-55-3	
Benzo(a)pyrene	<1.9	ug/kg	17.0	1.9	1	11/01/19 09:00	11/01/19 15:47	50-32-8	
Benzo(b)fluoranthene	<2.4	ug/kg	17.0	2.4	1	11/01/19 09:00	11/01/19 15:47	205-99-2	
Benzo(g,h,i)perylene	<3.0	ug/kg	17.0	3.0	1	11/01/19 09:00	11/01/19 15:47	191-24-2	
Benzo(k)fluoranthene	<2.2	ug/kg	17.0	2.2	1	11/01/19 09:00	11/01/19 15:47	207-08-9	
Chrysene	<3.2	ug/kg	17.0	3.2	1	11/01/19 09:00	11/01/19 15:47	218-01-9	
Dibenz(a,h)anthracene	<2.4	ug/kg	17.0	2.4	1	11/01/19 09:00	11/01/19 15:47	53-70-3	
Fluoranthene	<2.0	ug/kg	17.0	2.0	1	11/01/19 09:00	11/01/19 15:47	206-44-0	
Fluorene	<2.0	ug/kg	17.0	2.0	1	11/01/19 09:00	11/01/19 15:47	86-73-7	
Indeno(1,2,3-cd)pyrene	<3.5	ug/kg	17.0	3.5	1	11/01/19 09:00	11/01/19 15:47	193-39-5	
1-Methylnaphthalene	<2.5	ug/kg	17.0	2.5	1	11/01/19 09:00	11/01/19 15:47	90-12-0	
2-Methylnaphthalene	<2.5	ug/kg	17.0	2.5	1	11/01/19 09:00	11/01/19 15:47	91-57-6	
Naphthalene	<1.7	ug/kg	17.0	1.7	1	11/01/19 09:00	11/01/19 15:47	91-20-3	
Phenanthrene	<1.9	ug/kg	17.0	1.9	1	11/01/19 09:00	11/01/19 15:47	85-01-8	
Pyrene	<2.5	ug/kg	17.0	2.5	1	11/01/19 09:00	11/01/19 15:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	88	%	28-99		1	11/01/19 09:00	11/01/19 15:47	321-60-8	
Terphenyl-d14 (S)	74	%	10-107		1	11/01/19 09:00	11/01/19 15:47	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/02/19 08:30	11/05/19 00:49	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-106-10-12 Lab ID: 40198063028 Collected: 10/25/19 13:35 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/02/19 08:30	11/05/19 00:49	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/02/19 08:30	11/05/19 00:49	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/02/19 08:30	11/05/19 00:49	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/02/19 08:30	11/05/19 00:49	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	79-34-5	W
Tetrachloroethene	64.9	ug/kg	61.1	25.5	1	11/02/19 08:30	11/05/19 00:49	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/02/19 08:30	11/05/19 00:49	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	75-69-4	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-106-10-12 **Lab ID: 40198063028** Collected: 10/25/19 13:35 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/02/19 08:30	11/05/19 00:49	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/02/19 08:30	11/05/19 00:49	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/02/19 08:30	11/05/19 00:49	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	57-146		1	11/02/19 08:30	11/05/19 00:49	1868-53-7	
Toluene-d8 (S)	109	%	64-134		1	11/02/19 08:30	11/05/19 00:49	2037-26-5	
4-Bromofluorobenzene (S)	96	%	54-126		1	11/02/19 08:30	11/05/19 00:49	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	1.8	%	0.10	0.10	1		11/04/19 19:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-106-18-19 Lab ID: 40198063029 Collected: 10/25/19 13:44 Received: 10/25/19 17:47 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/04/19 10:15	11/04/19 23:42	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/04/19 10:15	11/04/19 23:42	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/04/19 10:15	11/04/19 23:42	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/04/19 10:15	11/04/19 23:42	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/04/19 10:15	11/04/19 23:42	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	100-42-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-106-18-19 **Lab ID: 40198063029** Collected: 10/25/19 13:44 Received: 10/25/19 17:47 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	79-34-5	W
Tetrachloroethene	59.4J	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	127-18-4	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/04/19 10:15	11/04/19 23:42	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/04/19 10:15	11/04/19 23:42	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/04/19 10:15	11/04/19 23:42	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/04/19 23:42	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	57-146		1	11/04/19 10:15	11/04/19 23:42	1868-53-7	
Toluene-d8 (S)	107	%	64-134		1	11/04/19 10:15	11/04/19 23:42	2037-26-5	
4-Bromofluorobenzene (S)	94	%	54-126		1	11/04/19 10:15	11/04/19 23:42	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-108-0.5-1.5 Lab ID: 40198063030 Collected: 10/25/19 15:27 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<3.4	mg/kg	11.3	3.4	2	10/30/19 06:39	11/05/19 13:09	7440-38-2	D3
Barium	93.2	mg/kg	0.58	0.17	1	10/30/19 06:39	11/01/19 16:45	7440-39-3	
Cadmium	<0.31	mg/kg	1.2	0.31	2	10/30/19 06:39	11/05/19 13:09	7440-43-9	D3
Chromium	29.2	mg/kg	1.2	0.32	1	10/30/19 06:39	11/01/19 16:45	7440-47-3	
Lead	78.9	mg/kg	4.6	1.4	2	10/30/19 06:39	11/05/19 13:09	7439-92-1	
Selenium	<3.0	mg/kg	10.1	3.0	2	10/30/19 06:39	11/05/19 13:09	7782-49-2	D3
Silver	<0.71	mg/kg	2.3	0.71	2	10/30/19 06:39	11/05/19 13:09	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.035J	mg/kg	0.040	0.012	1	11/06/19 09:30	11/06/19 13:52	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	20.2	2.6	1	11/01/19 09:00	11/01/19 16:04	83-32-9	
Acenaphthylene	<2.5	ug/kg	20.2	2.5	1	11/01/19 09:00	11/01/19 16:04	208-96-8	
Anthracene	3.2J	ug/kg	20.2	2.5	1	11/01/19 09:00	11/01/19 16:04	120-12-7	
Benzo(a)anthracene	7.8J	ug/kg	20.2	2.6	1	11/01/19 09:00	11/01/19 16:04	56-55-3	
Benzo(a)pyrene	7.9J	ug/kg	20.2	2.3	1	11/01/19 09:00	11/01/19 16:04	50-32-8	
Benzo(b)fluoranthene	12.8J	ug/kg	20.2	2.8	1	11/01/19 09:00	11/01/19 16:04	205-99-2	
Benzo(g,h,i)perylene	6.9J	ug/kg	20.2	3.5	1	11/01/19 09:00	11/01/19 16:04	191-24-2	
Benzo(k)fluoranthene	4.7J	ug/kg	20.2	2.6	1	11/01/19 09:00	11/01/19 16:04	207-08-9	
Chrysene	10.4J	ug/kg	20.2	3.8	1	11/01/19 09:00	11/01/19 16:04	218-01-9	
Dibenz(a,h)anthracene	<2.8	ug/kg	20.2	2.8	1	11/01/19 09:00	11/01/19 16:04	53-70-3	
Fluoranthene	14.7J	ug/kg	20.2	2.4	1	11/01/19 09:00	11/01/19 16:04	206-44-0	
Fluorene	<2.4	ug/kg	20.2	2.4	1	11/01/19 09:00	11/01/19 16:04	86-73-7	
Indeno(1,2,3-cd)pyrene	5.1J	ug/kg	20.2	4.2	1	11/01/19 09:00	11/01/19 16:04	193-39-5	
1-Methylnaphthalene	11.4J	ug/kg	20.2	3.0	1	11/01/19 09:00	11/01/19 16:04	90-12-0	
2-Methylnaphthalene	14.6J	ug/kg	20.2	3.0	1	11/01/19 09:00	11/01/19 16:04	91-57-6	
Naphthalene	8.3J	ug/kg	20.2	2.0	1	11/01/19 09:00	11/01/19 16:04	91-20-3	
Phenanthrene	10.9J	ug/kg	20.2	2.3	1	11/01/19 09:00	11/01/19 16:04	85-01-8	
Pyrene	11.1J	ug/kg	20.2	3.0	1	11/01/19 09:00	11/01/19 16:04	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	77	%	28-99		1	11/01/19 09:00	11/01/19 16:04	321-60-8	
Terphenyl-d14 (S)	63	%	10-107		1	11/01/19 09:00	11/01/19 16:04	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/04/19 10:15	11/05/19 00:05	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-108-0.5-1.5 Lab ID: 40198063030 Collected: 10/25/19 15:27 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/04/19 10:15	11/05/19 00:05	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/04/19 10:15	11/05/19 00:05	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/04/19 10:15	11/05/19 00:05	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/04/19 10:15	11/05/19 00:05	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/04/19 10:15	11/05/19 00:05	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-108-0.5-1.5 **Lab ID: 40198063030** Collected: 10/25/19 15:27 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/04/19 10:15	11/05/19 00:05	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/04/19 10:15	11/05/19 00:05	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:05	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	57-146		1	11/04/19 10:15	11/05/19 00:05	1868-53-7	
Toluene-d8 (S)	101	%	64-134		1	11/04/19 10:15	11/05/19 00:05	2037-26-5	
4-Bromofluorobenzene (S)	87	%	54-126		1	11/04/19 10:15	11/05/19 00:05	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.4	%	0.10	0.10	1		11/04/19 19:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: **SP-108-19-20** Lab ID: **40198063031** Collected: 10/25/19 15:35 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	4.7J	mg/kg	5.7	1.7	1	10/30/19 06:39	11/01/19 16:48	7440-38-2	
Barium	15.6	mg/kg	0.59	0.18	1	10/30/19 06:39	11/01/19 16:48	7440-39-3	
Cadmium	<0.16	mg/kg	0.59	0.16	1	10/30/19 06:39	11/01/19 16:48	7440-43-9	
Chromium	6.7	mg/kg	1.2	0.33	1	10/30/19 06:39	11/01/19 16:48	7440-47-3	
Lead	1.9J	mg/kg	2.3	0.70	1	10/30/19 06:39	11/01/19 16:48	7439-92-1	
Selenium	<1.5	mg/kg	5.1	1.5	1	10/30/19 06:39	11/01/19 16:48	7782-49-2	
Silver	<0.36	mg/kg	1.2	0.36	1	10/30/19 06:39	11/01/19 16:48	7440-22-4	
7471 Mercury Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.020J	mg/kg	0.042	0.012	1	11/06/19 09:30	11/06/19 13:55	7439-97-6	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	20.2	2.6	1	11/01/19 09:00	11/01/19 16:21	83-32-9	
Acenaphthylene	<2.5	ug/kg	20.2	2.5	1	11/01/19 09:00	11/01/19 16:21	208-96-8	
Anthracene	<2.5	ug/kg	20.2	2.5	1	11/01/19 09:00	11/01/19 16:21	120-12-7	
Benzo(a)anthracene	<2.6	ug/kg	20.2	2.6	1	11/01/19 09:00	11/01/19 16:21	56-55-3	
Benzo(a)pyrene	<2.3	ug/kg	20.2	2.3	1	11/01/19 09:00	11/01/19 16:21	50-32-8	
Benzo(b)fluoranthene	<2.8	ug/kg	20.2	2.8	1	11/01/19 09:00	11/01/19 16:21	205-99-2	
Benzo(g,h,i)perylene	<3.5	ug/kg	20.2	3.5	1	11/01/19 09:00	11/01/19 16:21	191-24-2	
Benzo(k)fluoranthene	<2.6	ug/kg	20.2	2.6	1	11/01/19 09:00	11/01/19 16:21	207-08-9	
Chrysene	<3.8	ug/kg	20.2	3.8	1	11/01/19 09:00	11/01/19 16:21	218-01-9	
Dibenz(a,h)anthracene	<2.8	ug/kg	20.2	2.8	1	11/01/19 09:00	11/01/19 16:21	53-70-3	
Fluoranthene	<2.4	ug/kg	20.2	2.4	1	11/01/19 09:00	11/01/19 16:21	206-44-0	
Fluorene	<2.4	ug/kg	20.2	2.4	1	11/01/19 09:00	11/01/19 16:21	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.2	ug/kg	20.2	4.2	1	11/01/19 09:00	11/01/19 16:21	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	20.2	2.9	1	11/01/19 09:00	11/01/19 16:21	90-12-0	
2-Methylnaphthalene	<3.0	ug/kg	20.2	3.0	1	11/01/19 09:00	11/01/19 16:21	91-57-6	
Naphthalene	<2.0	ug/kg	20.2	2.0	1	11/01/19 09:00	11/01/19 16:21	91-20-3	
Phenanthrene	<2.3	ug/kg	20.2	2.3	1	11/01/19 09:00	11/01/19 16:21	85-01-8	
Pyrene	<3.0	ug/kg	20.2	3.0	1	11/01/19 09:00	11/01/19 16:21	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	82	%	28-99		1	11/01/19 09:00	11/01/19 16:21	321-60-8	
Terphenyl-d14 (S)	72	%	10-107		1	11/01/19 09:00	11/01/19 16:21	1718-51-0	
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/04/19 10:15	11/05/19 00:27	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-108-19-20 Lab ID: 40198063031 Collected: 10/25/19 15:35 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/04/19 10:15	11/05/19 00:27	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/04/19 10:15	11/05/19 00:27	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/04/19 10:15	11/05/19 00:27	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/04/19 10:15	11/05/19 00:27	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/04/19 10:15	11/05/19 00:27	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-108-19-20 **Lab ID: 40198063031** Collected: 10/25/19 15:35 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/04/19 10:15	11/05/19 00:27	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/04/19 10:15	11/05/19 00:27	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:27	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	57-146		1	11/04/19 10:15	11/05/19 00:27	1868-53-7	
Toluene-d8 (S)	111	%	64-134		1	11/04/19 10:15	11/05/19 00:27	2037-26-5	
4-Bromofluorobenzene (S)	95	%	54-126		1	11/04/19 10:15	11/05/19 00:27	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	17.3	%	0.10	0.10	1		11/04/19 19:02		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-108-19-20D **Lab ID: 40198063032** Collected: 10/25/19 15:35 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.3J	mg/kg	5.4	1.6	1	10/30/19 06:39	11/01/19 16:50	7440-38-2	
Barium	22.8	mg/kg	0.55	0.16	1	10/30/19 06:39	11/01/19 16:50	7440-39-3	
Cadmium	<0.15	mg/kg	0.55	0.15	1	10/30/19 06:39	11/01/19 16:50	7440-43-9	
Chromium	10.7	mg/kg	1.1	0.31	1	10/30/19 06:39	11/01/19 16:50	7440-47-3	
Lead	1.9J	mg/kg	2.2	0.66	1	10/30/19 06:39	11/01/19 16:50	7439-92-1	
Selenium	<1.4	mg/kg	4.8	1.4	1	10/30/19 06:39	11/01/19 16:50	7782-49-2	
Silver	<0.34	mg/kg	1.1	0.34	1	10/30/19 06:39	11/01/19 16:50	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.018J	mg/kg	0.040	0.012	1	11/06/19 09:30	11/06/19 13:57	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	20.0	2.6	1	11/01/19 09:00	11/01/19 16:38	83-32-9	
Acenaphthylene	<2.5	ug/kg	20.0	2.5	1	11/01/19 09:00	11/01/19 16:38	208-96-8	
Anthracene	<2.5	ug/kg	20.0	2.5	1	11/01/19 09:00	11/01/19 16:38	120-12-7	
Benzo(a)anthracene	<2.6	ug/kg	20.0	2.6	1	11/01/19 09:00	11/01/19 16:38	56-55-3	
Benzo(a)pyrene	<2.3	ug/kg	20.0	2.3	1	11/01/19 09:00	11/01/19 16:38	50-32-8	
Benzo(b)fluoranthene	<2.8	ug/kg	20.0	2.8	1	11/01/19 09:00	11/01/19 16:38	205-99-2	
Benzo(g,h,i)perylene	<3.5	ug/kg	20.0	3.5	1	11/01/19 09:00	11/01/19 16:38	191-24-2	
Benzo(k)fluoranthene	<2.6	ug/kg	20.0	2.6	1	11/01/19 09:00	11/01/19 16:38	207-08-9	
Chrysene	<3.8	ug/kg	20.0	3.8	1	11/01/19 09:00	11/01/19 16:38	218-01-9	
Dibenz(a,h)anthracene	<2.8	ug/kg	20.0	2.8	1	11/01/19 09:00	11/01/19 16:38	53-70-3	
Fluoranthene	<2.4	ug/kg	20.0	2.4	1	11/01/19 09:00	11/01/19 16:38	206-44-0	
Fluorene	<2.4	ug/kg	20.0	2.4	1	11/01/19 09:00	11/01/19 16:38	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.2	ug/kg	20.0	4.2	1	11/01/19 09:00	11/01/19 16:38	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	20.0	2.9	1	11/01/19 09:00	11/01/19 16:38	90-12-0	
2-Methylnaphthalene	<2.9	ug/kg	20.0	2.9	1	11/01/19 09:00	11/01/19 16:38	91-57-6	
Naphthalene	2.9J	ug/kg	20.0	1.9	1	11/01/19 09:00	11/01/19 16:38	91-20-3	
Phenanthrene	<2.3	ug/kg	20.0	2.3	1	11/01/19 09:00	11/01/19 16:38	85-01-8	
Pyrene	<2.9	ug/kg	20.0	2.9	1	11/01/19 09:00	11/01/19 16:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	77	%	28-99		1	11/01/19 09:00	11/01/19 16:38	321-60-8	
Terphenyl-d14 (S)	66	%	10-107		1	11/01/19 09:00	11/01/19 16:38	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/04/19 10:15	11/05/19 00:50	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-108-19-20D **Lab ID: 40198063032** Collected: 10/25/19 15:35 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/04/19 10:15	11/05/19 00:50	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/04/19 10:15	11/05/19 00:50	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/04/19 10:15	11/05/19 00:50	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/04/19 10:15	11/05/19 00:50	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/04/19 10:15	11/05/19 00:50	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-108-19-20D **Lab ID: 40198063032** Collected: 10/25/19 15:35 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/04/19 10:15	11/05/19 00:50	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/04/19 10:15	11/05/19 00:50	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 00:50	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	57-146		1	11/04/19 10:15	11/05/19 00:50	1868-53-7	
Toluene-d8 (S)	99	%	64-134		1	11/04/19 10:15	11/05/19 00:50	2037-26-5	
4-Bromofluorobenzene (S)	84	%	54-126		1	11/04/19 10:15	11/05/19 00:50	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.3	%	0.10	0.10	1		11/04/19 19:02		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-109-0.5-1.5 **Lab ID: 40198063033** Collected: 10/25/19 15:50 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<3.4	mg/kg	11.2	3.4	2	10/30/19 06:39	11/05/19 13:11	7440-38-2	D3
Barium	67.7	mg/kg	0.58	0.17	1	10/30/19 06:39	11/01/19 16:58	7440-39-3	
Cadmium	<0.31	mg/kg	1.2	0.31	2	10/30/19 06:39	11/05/19 13:11	7440-43-9	D3
Chromium	31.8	mg/kg	1.2	0.32	1	10/30/19 06:39	11/01/19 16:58	7440-47-3	
Lead	6.3	mg/kg	4.6	1.4	2	10/30/19 06:39	11/05/19 13:11	7439-92-1	
Selenium	<3.0	mg/kg	10.0	3.0	2	10/30/19 06:39	11/05/19 13:11	7782-49-2	D3
Silver	0.77J	mg/kg	2.3	0.71	2	10/30/19 06:39	11/05/19 13:11	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.048	mg/kg	0.037	0.011	1	11/06/19 09:30	11/06/19 13:59	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.5	ug/kg	19.4	2.5	1	11/01/19 09:00	11/01/19 16:55	83-32-9	
Acenaphthylene	<2.4	ug/kg	19.4	2.4	1	11/01/19 09:00	11/01/19 16:55	208-96-8	
Anthracene	<2.4	ug/kg	19.4	2.4	1	11/01/19 09:00	11/01/19 16:55	120-12-7	
Benzo(a)anthracene	4.0J	ug/kg	19.4	2.5	1	11/01/19 09:00	11/01/19 16:55	56-55-3	
Benzo(a)pyrene	3.0J	ug/kg	19.4	2.2	1	11/01/19 09:00	11/01/19 16:55	50-32-8	
Benzo(b)fluoranthene	5.6J	ug/kg	19.4	2.7	1	11/01/19 09:00	11/01/19 16:55	205-99-2	
Benzo(g,h,i)perylene	<3.4	ug/kg	19.4	3.4	1	11/01/19 09:00	11/01/19 16:55	191-24-2	
Benzo(k)fluoranthene	<2.5	ug/kg	19.4	2.5	1	11/01/19 09:00	11/01/19 16:55	207-08-9	
Chrysene	5.1J	ug/kg	19.4	3.7	1	11/01/19 09:00	11/01/19 16:55	218-01-9	
Dibenz(a,h)anthracene	<2.7	ug/kg	19.4	2.7	1	11/01/19 09:00	11/01/19 16:55	53-70-3	
Fluoranthene	5.2J	ug/kg	19.4	2.3	1	11/01/19 09:00	11/01/19 16:55	206-44-0	
Fluorene	<2.3	ug/kg	19.4	2.3	1	11/01/19 09:00	11/01/19 16:55	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.0	ug/kg	19.4	4.0	1	11/01/19 09:00	11/01/19 16:55	193-39-5	
1-Methylnaphthalene	<2.8	ug/kg	19.4	2.8	1	11/01/19 09:00	11/01/19 16:55	90-12-0	
2-Methylnaphthalene	4.1J	ug/kg	19.4	2.8	1	11/01/19 09:00	11/01/19 16:55	91-57-6	
Naphthalene	3.9J	ug/kg	19.4	1.9	1	11/01/19 09:00	11/01/19 16:55	91-20-3	
Phenanthrene	5.0J	ug/kg	19.4	2.2	1	11/01/19 09:00	11/01/19 16:55	85-01-8	
Pyrene	4.3J	ug/kg	19.4	2.9	1	11/01/19 09:00	11/01/19 16:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	28-99		1	11/01/19 09:00	11/01/19 16:55	321-60-8	
Terphenyl-d14 (S)	62	%	10-107		1	11/01/19 09:00	11/01/19 16:55	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/04/19 10:15	11/05/19 01:13	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-109-0.5-1.5 **Lab ID: 40198063033** Collected: 10/25/19 15:50 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/04/19 10:15	11/05/19 01:13	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/04/19 10:15	11/05/19 01:13	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/04/19 10:15	11/05/19 01:13	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/04/19 10:15	11/05/19 01:13	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/04/19 10:15	11/05/19 01:13	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-109-0.5-1.5 **Lab ID: 40198063033** Collected: 10/25/19 15:50 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/04/19 10:15	11/05/19 01:13	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/04/19 10:15	11/05/19 01:13	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:13	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	57-146		1	11/04/19 10:15	11/05/19 01:13	1868-53-7	
Toluene-d8 (S)	112	%	64-134		1	11/04/19 10:15	11/05/19 01:13	2037-26-5	
4-Bromofluorobenzene (S)	97	%	54-126		1	11/04/19 10:15	11/05/19 01:13	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.0	%	0.10	0.10	1		11/04/19 19:02		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-109-18-19 **Lab ID: 40198063034** Collected: 10/25/19 15:59 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.3J	mg/kg	5.5	1.6	1	10/30/19 06:39	11/01/19 17:00	7440-38-2	
Barium	6.7	mg/kg	0.56	0.17	1	10/30/19 06:39	11/01/19 17:00	7440-39-3	
Cadmium	<0.15	mg/kg	0.56	0.15	1	10/30/19 06:39	11/01/19 17:00	7440-43-9	
Chromium	3.9	mg/kg	1.1	0.31	1	10/30/19 06:39	11/01/19 17:00	7440-47-3	
Lead	0.85J	mg/kg	2.2	0.67	1	10/30/19 06:39	11/01/19 17:00	7439-92-1	
Selenium	<1.5	mg/kg	4.9	1.5	1	10/30/19 06:39	11/01/19 17:00	7782-49-2	
Silver	<0.34	mg/kg	1.1	0.34	1	10/30/19 06:39	11/01/19 17:00	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.038	0.011	1	11/06/19 09:30	11/06/19 14:02	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	20.0	2.6	1	11/01/19 09:00	11/01/19 13:47	83-32-9	
Acenaphthylene	<2.5	ug/kg	20.0	2.5	1	11/01/19 09:00	11/01/19 13:47	208-96-8	
Anthracene	<2.5	ug/kg	20.0	2.5	1	11/01/19 09:00	11/01/19 13:47	120-12-7	
Benzo(a)anthracene	<2.6	ug/kg	20.0	2.6	1	11/01/19 09:00	11/01/19 13:47	56-55-3	
Benzo(a)pyrene	<2.3	ug/kg	20.0	2.3	1	11/01/19 09:00	11/01/19 13:47	50-32-8	
Benzo(b)fluoranthene	<2.8	ug/kg	20.0	2.8	1	11/01/19 09:00	11/01/19 13:47	205-99-2	
Benzo(g,h,i)perylene	<3.5	ug/kg	20.0	3.5	1	11/01/19 09:00	11/01/19 13:47	191-24-2	
Benzo(k)fluoranthene	<2.6	ug/kg	20.0	2.6	1	11/01/19 09:00	11/01/19 13:47	207-08-9	
Chrysene	<3.8	ug/kg	20.0	3.8	1	11/01/19 09:00	11/01/19 13:47	218-01-9	
Dibenz(a,h)anthracene	<2.8	ug/kg	20.0	2.8	1	11/01/19 09:00	11/01/19 13:47	53-70-3	
Fluoranthene	<2.4	ug/kg	20.0	2.4	1	11/01/19 09:00	11/01/19 13:47	206-44-0	
Fluorene	<2.4	ug/kg	20.0	2.4	1	11/01/19 09:00	11/01/19 13:47	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.2	ug/kg	20.0	4.2	1	11/01/19 09:00	11/01/19 13:47	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	20.0	2.9	1	11/01/19 09:00	11/01/19 13:47	90-12-0	
2-Methylnaphthalene	<2.9	ug/kg	20.0	2.9	1	11/01/19 09:00	11/01/19 13:47	91-57-6	
Naphthalene	<1.9	ug/kg	20.0	1.9	1	11/01/19 09:00	11/01/19 13:47	91-20-3	
Phenanthrene	<2.3	ug/kg	20.0	2.3	1	11/01/19 09:00	11/01/19 13:47	85-01-8	
Pyrene	<2.9	ug/kg	20.0	2.9	1	11/01/19 09:00	11/01/19 13:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	92	%	28-99		1	11/01/19 09:00	11/01/19 13:47	321-60-8	
Terphenyl-d14 (S)	65	%	10-107		1	11/01/19 09:00	11/01/19 13:47	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/04/19 10:15	11/05/19 01:35	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: **SP-109-18-19** Lab ID: **40198063034** Collected: 10/25/19 15:59 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/04/19 10:15	11/05/19 01:35	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/04/19 10:15	11/05/19 01:35	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/04/19 10:15	11/05/19 01:35	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/04/19 10:15	11/05/19 01:35	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/04/19 10:15	11/05/19 01:35	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	75-69-4	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-109-18-19 **Lab ID: 40198063034** Collected: 10/25/19 15:59 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/04/19 10:15	11/05/19 01:35	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/04/19 10:15	11/05/19 01:35	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:35	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	57-146		1	11/04/19 10:15	11/05/19 01:35	1868-53-7	
Toluene-d8 (S)	107	%	64-134		1	11/04/19 10:15	11/05/19 01:35	2037-26-5	
4-Bromofluorobenzene (S)	87	%	54-126		1	11/04/19 10:15	11/05/19 01:35	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.4	%	0.10	0.10	1		11/04/19 19:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-110-0.5-1.5 **Lab ID: 40198063035** Collected: 10/25/19 16:02 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	<3.3	mg/kg	10.9	3.3	2	10/30/19 06:39	11/05/19 13:14	7440-38-2	D3
Barium	97.1	mg/kg	0.56	0.17	1	10/30/19 06:39	11/01/19 17:03	7440-39-3	
Cadmium	<0.30	mg/kg	1.1	0.30	2	10/30/19 06:39	11/05/19 13:14	7440-43-9	D3
Chromium	30.5	mg/kg	1.1	0.31	1	10/30/19 06:39	11/01/19 17:03	7440-47-3	
Lead	8.4	mg/kg	4.5	1.3	2	10/30/19 06:39	11/05/19 13:14	7439-92-1	
Selenium	<2.9	mg/kg	9.8	2.9	2	10/30/19 06:39	11/05/19 13:14	7782-49-2	D3
Silver	<0.69	mg/kg	2.2	0.69	2	10/30/19 06:39	11/05/19 13:14	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.040	mg/kg	0.040	0.012	1	11/06/19 09:30	11/06/19 14:04	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	20.1	2.6	1	11/01/19 09:00	11/01/19 17:12	83-32-9	
Acenaphthylene	<2.5	ug/kg	20.1	2.5	1	11/01/19 09:00	11/01/19 17:12	208-96-8	
Anthracene	<2.5	ug/kg	20.1	2.5	1	11/01/19 09:00	11/01/19 17:12	120-12-7	
Benzo(a)anthracene	2.7J	ug/kg	20.1	2.6	1	11/01/19 09:00	11/01/19 17:12	56-55-3	
Benzo(a)pyrene	<2.3	ug/kg	20.1	2.3	1	11/01/19 09:00	11/01/19 17:12	50-32-8	
Benzo(b)fluoranthene	<2.8	ug/kg	20.1	2.8	1	11/01/19 09:00	11/01/19 17:12	205-99-2	
Benzo(g,h,i)perylene	<3.5	ug/kg	20.1	3.5	1	11/01/19 09:00	11/01/19 17:12	191-24-2	
Benzo(k)fluoranthene	<2.6	ug/kg	20.1	2.6	1	11/01/19 09:00	11/01/19 17:12	207-08-9	
Chrysene	<3.8	ug/kg	20.1	3.8	1	11/01/19 09:00	11/01/19 17:12	218-01-9	
Dibenz(a,h)anthracene	<2.8	ug/kg	20.1	2.8	1	11/01/19 09:00	11/01/19 17:12	53-70-3	
Fluoranthene	2.4J	ug/kg	20.1	2.4	1	11/01/19 09:00	11/01/19 17:12	206-44-0	
Fluorene	<2.4	ug/kg	20.1	2.4	1	11/01/19 09:00	11/01/19 17:12	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.2	ug/kg	20.1	4.2	1	11/01/19 09:00	11/01/19 17:12	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	20.1	2.9	1	11/01/19 09:00	11/01/19 17:12	90-12-0	
2-Methylnaphthalene	<2.9	ug/kg	20.1	2.9	1	11/01/19 09:00	11/01/19 17:12	91-57-6	
Naphthalene	<2.0	ug/kg	20.1	2.0	1	11/01/19 09:00	11/01/19 17:12	91-20-3	
Phenanthrene	<2.3	ug/kg	20.1	2.3	1	11/01/19 09:00	11/01/19 17:12	85-01-8	
Pyrene	<3.0	ug/kg	20.1	3.0	1	11/01/19 09:00	11/01/19 17:12	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	28-99		1	11/01/19 09:00	11/01/19 17:12	321-60-8	
Terphenyl-d14 (S)	60	%	10-107		1	11/01/19 09:00	11/01/19 17:12	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/04/19 10:15	11/05/19 01:58	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-110-0.5-1.5 Lab ID: 40198063035 Collected: 10/25/19 16:02 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/04/19 10:15	11/05/19 01:58	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/04/19 10:15	11/05/19 01:58	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/04/19 10:15	11/05/19 01:58	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/04/19 10:15	11/05/19 01:58	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/04/19 10:15	11/05/19 01:58	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	75-69-4	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Sample: SP-110-0.5-1.5 **Lab ID: 40198063035** Collected: 10/25/19 16:02 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/04/19 10:15	11/05/19 01:58	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/04/19 10:15	11/05/19 01:58	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 01:58	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	57-146		1	11/04/19 10:15	11/05/19 01:58	1868-53-7	
Toluene-d8 (S)	106	%	64-134		1	11/04/19 10:15	11/05/19 01:58	2037-26-5	
4-Bromofluorobenzene (S)	89	%	54-126		1	11/04/19 10:15	11/05/19 01:58	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.8	%	0.10	0.10	1		11/04/19 19:03		

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-110-18-19 **Lab ID: 40198063036** Collected: 10/25/19 16:07 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.3J	mg/kg	5.8	1.7	1	10/30/19 06:39	11/01/19 17:05	7440-38-2	
Barium	38.5	mg/kg	0.60	0.18	1	10/30/19 06:39	11/01/19 17:05	7440-39-3	
Cadmium	0.16J	mg/kg	0.60	0.16	1	10/30/19 06:39	11/01/19 17:05	7440-43-9	
Chromium	26.5	mg/kg	1.2	0.33	1	10/30/19 06:39	11/01/19 17:05	7440-47-3	
Lead	3.4	mg/kg	2.4	0.71	1	10/30/19 06:39	11/01/19 17:05	7439-92-1	
Selenium	<1.6	mg/kg	5.2	1.6	1	10/30/19 06:39	11/01/19 17:05	7782-49-2	
Silver	<0.37	mg/kg	1.2	0.37	1	10/30/19 06:39	11/01/19 17:05	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.020J	mg/kg	0.040	0.012	1	11/06/19 09:30	11/06/19 14:06	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.6	ug/kg	20.1	2.6	1	11/01/19 09:00	11/01/19 17:30	83-32-9	
Acenaphthylene	<2.5	ug/kg	20.1	2.5	1	11/01/19 09:00	11/01/19 17:30	208-96-8	
Anthracene	<2.5	ug/kg	20.1	2.5	1	11/01/19 09:00	11/01/19 17:30	120-12-7	
Benzo(a)anthracene	<2.6	ug/kg	20.1	2.6	1	11/01/19 09:00	11/01/19 17:30	56-55-3	
Benzo(a)pyrene	<2.3	ug/kg	20.1	2.3	1	11/01/19 09:00	11/01/19 17:30	50-32-8	
Benzo(b)fluoranthene	<2.8	ug/kg	20.1	2.8	1	11/01/19 09:00	11/01/19 17:30	205-99-2	
Benzo(g,h,i)perylene	<3.5	ug/kg	20.1	3.5	1	11/01/19 09:00	11/01/19 17:30	191-24-2	
Benzo(k)fluoranthene	<2.6	ug/kg	20.1	2.6	1	11/01/19 09:00	11/01/19 17:30	207-08-9	
Chrysene	<3.8	ug/kg	20.1	3.8	1	11/01/19 09:00	11/01/19 17:30	218-01-9	
Dibenz(a,h)anthracene	<2.8	ug/kg	20.1	2.8	1	11/01/19 09:00	11/01/19 17:30	53-70-3	
Fluoranthene	<2.4	ug/kg	20.1	2.4	1	11/01/19 09:00	11/01/19 17:30	206-44-0	
Fluorene	<2.4	ug/kg	20.1	2.4	1	11/01/19 09:00	11/01/19 17:30	86-73-7	
Indeno(1,2,3-cd)pyrene	<4.2	ug/kg	20.1	4.2	1	11/01/19 09:00	11/01/19 17:30	193-39-5	
1-Methylnaphthalene	<2.9	ug/kg	20.1	2.9	1	11/01/19 09:00	11/01/19 17:30	90-12-0	
2-Methylnaphthalene	<2.9	ug/kg	20.1	2.9	1	11/01/19 09:00	11/01/19 17:30	91-57-6	
Naphthalene	<2.0	ug/kg	20.1	2.0	1	11/01/19 09:00	11/01/19 17:30	91-20-3	
Phenanthrene	<2.3	ug/kg	20.1	2.3	1	11/01/19 09:00	11/01/19 17:30	85-01-8	
Pyrene	<3.0	ug/kg	20.1	3.0	1	11/01/19 09:00	11/01/19 17:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	28-99		1	11/01/19 09:00	11/01/19 17:30	321-60-8	
Terphenyl-d14 (S)	72	%	10-107		1	11/01/19 09:00	11/01/19 17:30	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	11/04/19 10:15	11/05/19 02:21	74-83-9	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-110-18-19 Lab ID: 40198063036 Collected: 10/25/19 16:07 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	11/04/19 10:15	11/05/19 02:21	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	11/04/19 10:15	11/05/19 02:21	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	106-43-4	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	11/04/19 10:15	11/05/19 02:21	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	74-95-3	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	11/04/19 10:15	11/05/19 02:21	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	100-42-5	W
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	87-61-6	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	11/04/19 10:15	11/05/19 02:21	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	75-69-4	W

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Sample: SP-110-18-19 **Lab ID: 40198063036** Collected: 10/25/19 16:07 Received: 10/25/19 17:47 Matrix: Solid

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

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	75-01-4	W
Xylene (Total)	<75.0	ug/kg	180	75.0	1	11/04/19 10:15	11/05/19 02:21	1330-20-7	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/04/19 10:15	11/05/19 02:21	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/04/19 10:15	11/05/19 02:21	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	57-146		1	11/04/19 10:15	11/05/19 02:21	1868-53-7	
Toluene-d8 (S)	101	%	64-134		1	11/04/19 10:15	11/05/19 02:21	2037-26-5	
4-Bromofluorobenzene (S)	85	%	54-126		1	11/04/19 10:15	11/05/19 02:21	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.9	%	0.10	0.10	1		11/04/19 19:03		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

QC Batch: 339779 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 40198063001, 40198063003, 40198063006, 40198063007, 40198063008, 40198063009, 40198063010, 40198063011, 40198063012, 40198063013, 40198063015, 40198063016, 40198063017, 40198063018, 40198063019, 40198063021, 40198063022, 40198063023

METHOD BLANK: 1973123 Matrix: Solid
Associated Lab Samples: 40198063001, 40198063003, 40198063006, 40198063007, 40198063008, 40198063009, 40198063010, 40198063011, 40198063012, 40198063013, 40198063015, 40198063016, 40198063017, 40198063018, 40198063019, 40198063021, 40198063022, 40198063023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	11/06/19 12:22	

LABORATORY CONTROL SAMPLE: 1973124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.84	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1973125 1973126

Parameter	Units	40198063012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.014J	1.1	1.1	1.1	1.1	103	102	85-115	0	20	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch: 339780

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Associated Lab Samples: 40198063024, 40198063025, 40198063026, 40198063027, 40198063028, 40198063030, 40198063031, 40198063032, 40198063033, 40198063034, 40198063035, 40198063036

METHOD BLANK: 1973127

Matrix: Solid

Associated Lab Samples: 40198063024, 40198063025, 40198063026, 40198063027, 40198063028, 40198063030, 40198063031, 40198063032, 40198063033, 40198063034, 40198063035, 40198063036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	11/06/19 13:27	

LABORATORY CONTROL SAMPLE: 1973128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.84	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1973129 1973130

Parameter	Units	40198063024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	<0.011	0.86	0.86	0.87	0.89	100	102	85-115	3	20	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

QC Batch: 338981 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40198063001, 40198063003, 40198063006, 40198063007, 40198063008, 40198063009, 40198063010, 40198063011, 40198063012, 40198063013, 40198063015, 40198063016, 40198063017, 40198063018, 40198063019, 40198063021, 40198063022, 40198063023, 40198063024, 40198063025

METHOD BLANK: 1968892 Matrix: Solid
Associated Lab Samples: 40198063001, 40198063003, 40198063006, 40198063007, 40198063008, 40198063009, 40198063010, 40198063011, 40198063012, 40198063013, 40198063015, 40198063016, 40198063017, 40198063018, 40198063019, 40198063021, 40198063022, 40198063023, 40198063024, 40198063025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	4.9	11/02/19 22:52	
Barium	mg/kg	<0.15	0.50	11/02/19 22:52	
Cadmium	mg/kg	<0.13	0.50	11/02/19 22:52	
Chromium	mg/kg	<0.28	1.0	11/02/19 22:52	
Lead	mg/kg	<0.60	2.0	11/02/19 22:52	
Selenium	mg/kg	<1.3	4.4	11/02/19 22:52	
Silver	mg/kg	<0.31	1.0	11/02/19 22:52	

LABORATORY CONTROL SAMPLE: 1968893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.7	101	80-120	
Barium	mg/kg	50	52.4	105	80-120	
Cadmium	mg/kg	50	51.6	103	80-120	
Chromium	mg/kg	50	50.6	101	80-120	
Lead	mg/kg	50	51.9	104	80-120	
Selenium	mg/kg	50	51.9	104	80-120	
Silver	mg/kg	25	27.0	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1968894 1968895

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		40198063012 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Arsenic	mg/kg	2.5J	63.5	63.5	57.6	56.1	87	84	75-125	3	20	
Barium	mg/kg	77.9	63.5	63.5	144	140	104	98	75-125	3	20	
Cadmium	mg/kg	<0.17	63.5	63.5	59.2	59.1	93	93	75-125	0	20	
Chromium	mg/kg	29.7	63.5	63.5	91.9	89.0	98	93	75-125	3	20	
Lead	mg/kg	7.4	63.5	63.5	65.1	64.7	91	90	75-125	1	20	
Selenium	mg/kg	<1.7	63.5	63.5	55.8	56.3	88	89	75-125	1	20	
Silver	mg/kg	<0.39	31.8	31.8	28.9	29.7	91	94	75-125	3	20	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch:	338982	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	40198063026, 40198063027, 40198063028, 40198063030, 40198063031, 40198063032, 40198063033, 40198063034, 40198063035, 40198063036		

METHOD BLANK: 1968896 Matrix: Solid
Associated Lab Samples: 40198063026, 40198063027, 40198063028, 40198063030, 40198063031, 40198063032, 40198063033, 40198063034, 40198063035, 40198063036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	4.9	11/01/19 16:02	
Barium	mg/kg	<0.15	0.50	11/01/19 16:02	
Cadmium	mg/kg	<0.13	0.50	11/01/19 16:02	
Chromium	mg/kg	<0.28	1.0	11/01/19 16:02	
Lead	mg/kg	<0.60	2.0	11/01/19 16:02	
Selenium	mg/kg	<1.3	4.4	11/01/19 16:02	
Silver	mg/kg	<0.31	1.0	11/01/19 16:02	

LABORATORY CONTROL SAMPLE: 1968897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	47.8	96	80-120	
Barium	mg/kg	50	48.8	98	80-120	
Cadmium	mg/kg	50	49.1	98	80-120	
Chromium	mg/kg	50	48.6	97	80-120	
Lead	mg/kg	50	49.9	100	80-120	
Selenium	mg/kg	50	48.8	98	80-120	
Silver	mg/kg	25	25.3	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1968898 1968899

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40197979001 Result	Spike Conc.	Spike Conc.	Conc.								
Arsenic	mg/kg	10.9	58.6	58.4	58.4	70.6	71.3	102	103	75-125	1	20	
Barium	mg/kg	59.0	58.6	58.4	58.4	129	102	119	74	75-125	23	20	M0, R1
Cadmium	mg/kg	0.30J	58.6	58.4	58.4	57.9	55.4	99	94	75-125	5	20	
Chromium	mg/kg	25.7	58.6	58.4	58.4	80.8	81.6	94	95	75-125	1	20	
Lead	mg/kg	23.4	58.6	58.4	58.4	79.8	72.3	97	84	75-125	10	20	
Selenium	mg/kg	<1.5	58.6	58.4	58.4	56.0	51.8	96	89	75-125	8	20	
Silver	mg/kg	<0.36	29.2	29.2	29.2	28.2	28.1	96	96	75-125	0	20	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch: 339468 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40198063002, 40198063003, 40198063004, 40198063005, 40198063006, 40198063007

METHOD BLANK: 1971505 Matrix: Solid
Associated Lab Samples: 40198063002, 40198063003, 40198063004, 40198063005, 40198063006, 40198063007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	11/04/19 08:48	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	11/04/19 08:48	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	11/04/19 08:48	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	11/04/19 08:48	
1,1-Dichloroethane	ug/kg	<17.6	50.0	11/04/19 08:48	
1,1-Dichloroethene	ug/kg	<17.6	50.0	11/04/19 08:48	
1,1-Dichloropropene	ug/kg	<14.0	50.0	11/04/19 08:48	
1,2,3-Trichlorobenzene	ug/kg	17.2J	50.0	11/04/19 08:48	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	11/04/19 08:48	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	11/04/19 08:48	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	11/04/19 08:48	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	11/04/19 08:48	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	11/04/19 08:48	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	11/04/19 08:48	
1,2-Dichloroethane	ug/kg	<15.0	50.0	11/04/19 08:48	
1,2-Dichloropropane	ug/kg	<16.8	50.0	11/04/19 08:48	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	11/04/19 08:48	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	11/04/19 08:48	
1,3-Dichloropropane	ug/kg	<12.0	50.0	11/04/19 08:48	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	11/04/19 08:48	
2,2-Dichloropropane	ug/kg	<12.6	50.0	11/04/19 08:48	
2-Chlorotoluene	ug/kg	<15.8	50.0	11/04/19 08:48	
4-Chlorotoluene	ug/kg	<13.0	50.0	11/04/19 08:48	
Benzene	ug/kg	<9.2	20.0	11/04/19 08:48	
Bromobenzene	ug/kg	<20.6	50.0	11/04/19 08:48	
Bromochloromethane	ug/kg	<21.4	50.0	11/04/19 08:48	
Bromodichloromethane	ug/kg	<9.8	50.0	11/04/19 08:48	
Bromoform	ug/kg	<19.8	50.0	11/04/19 08:48	
Bromomethane	ug/kg	<69.9	250	11/04/19 08:48	
Carbon tetrachloride	ug/kg	<12.1	50.0	11/04/19 08:48	
Chlorobenzene	ug/kg	<14.8	50.0	11/04/19 08:48	
Chloroethane	ug/kg	<67.0	250	11/04/19 08:48	
Chloroform	ug/kg	<46.4	250	11/04/19 08:48	
Chloromethane	ug/kg	<20.4	50.0	11/04/19 08:48	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	11/04/19 08:48	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	11/04/19 08:48	
Dibromochloromethane	ug/kg	<17.9	50.0	11/04/19 08:48	
Dibromomethane	ug/kg	<19.3	50.0	11/04/19 08:48	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	11/04/19 08:48	
Diisopropyl ether	ug/kg	<17.7	50.0	11/04/19 08:48	
Ethylbenzene	ug/kg	<12.4	50.0	11/04/19 08:48	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

METHOD BLANK: 1971505

Matrix: Solid

Associated Lab Samples: 40198063002, 40198063003, 40198063004, 40198063005, 40198063006, 40198063007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	28.7J	50.0	11/04/19 08:48	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	11/04/19 08:48	
m&p-Xylene	ug/kg	<34.4	100	11/04/19 08:48	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	11/04/19 08:48	
Methylene Chloride	ug/kg	<16.2	50.0	11/04/19 08:48	
n-Butylbenzene	ug/kg	16.4J	50.0	11/04/19 08:48	
n-Propylbenzene	ug/kg	<11.6	50.0	11/04/19 08:48	
Naphthalene	ug/kg	<40.0	250	11/04/19 08:48	
o-Xylene	ug/kg	<14.0	50.0	11/04/19 08:48	
p-Isopropyltoluene	ug/kg	<12.0	50.0	11/04/19 08:48	
sec-Butylbenzene	ug/kg	<11.9	50.0	11/04/19 08:48	
Styrene	ug/kg	<9.0	50.0	11/04/19 08:48	
tert-Butylbenzene	ug/kg	<9.5	50.0	11/04/19 08:48	
Tetrachloroethene	ug/kg	<12.9	50.0	11/04/19 08:48	
Toluene	ug/kg	<11.2	50.0	11/04/19 08:48	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	11/04/19 08:48	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	11/04/19 08:48	
Trichloroethene	ug/kg	<23.6	50.0	11/04/19 08:48	
Trichlorofluoromethane	ug/kg	<24.7	50.0	11/04/19 08:48	
Vinyl chloride	ug/kg	<21.1	50.0	11/04/19 08:48	
4-Bromofluorobenzene (S)	%	91	54-126	11/04/19 08:48	
Dibromofluoromethane (S)	%	99	57-146	11/04/19 08:48	
Toluene-d8 (S)	%	109	64-134	11/04/19 08:48	

LABORATORY CONTROL SAMPLE: 1971506

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2650	106	70-132	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2880	115	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2740	110	70-130	
1,1-Dichloroethane	ug/kg	2500	2710	108	70-130	
1,1-Dichloroethene	ug/kg	2500	2650	106	77-126	
1,2,4-Trichlorobenzene	ug/kg	2500	2270	91	66-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2870	115	54-129	
1,2-Dibromoethane (EDB)	ug/kg	2500	2580	103	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2710	108	70-130	
1,2-Dichloroethane	ug/kg	2500	2670	107	70-134	
1,2-Dichloropropane	ug/kg	2500	2790	112	74-124	
1,3-Dichlorobenzene	ug/kg	2500	2840	113	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2750	110	70-130	
Benzene	ug/kg	2500	2500	100	70-130	
Bromodichloromethane	ug/kg	2500	2670	107	70-130	
Bromoform	ug/kg	2500	2430	97	47-115	
Bromomethane	ug/kg	2500	1820	73	64-165	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

LABORATORY CONTROL SAMPLE: 1971506

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2540	102	70-131	
Chlorobenzene	ug/kg	2500	2640	106	70-130	
Chloroethane	ug/kg	2500	2200	88	28-197	
Chloroform	ug/kg	2500	2430	97	80-131	
Chloromethane	ug/kg	2500	1920	77	45-118	
cis-1,2-Dichloroethene	ug/kg	2500	2320	93	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2460	98	70-130	
Dibromochloromethane	ug/kg	2500	2610	105	70-130	
Dichlorodifluoromethane	ug/kg	2500	1330	53	38-108	
Ethylbenzene	ug/kg	2500	2620	105	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2660	106	70-130	
m&p-Xylene	ug/kg	5000	5470	109	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2640	106	70-130	
Methylene Chloride	ug/kg	2500	2320	93	70-130	
o-Xylene	ug/kg	2500	2670	107	70-130	
Styrene	ug/kg	2500	2770	111	70-130	
Tetrachloroethene	ug/kg	2500	2690	107	70-130	
Toluene	ug/kg	2500	2790	112	80-121	
trans-1,2-Dichloroethene	ug/kg	2500	2650	106	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2670	107	70-130	
Trichloroethene	ug/kg	2500	2560	102	70-130	
Trichlorofluoromethane	ug/kg	2500	2480	99	81-141	
Vinyl chloride	ug/kg	2500	2200	88	68-121	
4-Bromofluorobenzene (S)	%			99	54-126	
Dibromofluoromethane (S)	%			98	57-146	
Toluene-d8 (S)	%			109	64-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1971507 1971508

Parameter	Units	40198063007		MSD		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1,1,1-Trichloroethane	ug/kg	<25.0	1470	1470	1430	1430	97	97	64-132	0	20		
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1470	1470	1810	1750	123	119	70-132	3	20		
1,1,2-Trichloroethane	ug/kg	<25.0	1470	1470	1590	1620	108	110	70-130	2	20		
1,1-Dichloroethane	ug/kg	<25.0	1470	1470	1530	1550	104	105	70-130	2	20		
1,1-Dichloroethene	ug/kg	<25.0	1470	1470	1470	1430	100	97	65-126	3	21		
1,2,4-Trichlorobenzene	ug/kg	<47.6	1470	1470	1620	1510	110	103	66-139	7	20		
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1470	1470	1800	1680	123	114	47-146	7	23		
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1470	1470	1500	1510	102	102	70-130	0	20		
1,2-Dichlorobenzene	ug/kg	<25.0	1470	1470	1630	1650	111	112	70-130	1	20		
1,2-Dichloroethane	ug/kg	<25.0	1470	1470	1470	1560	100	106	70-136	5	20		
1,2-Dichloropropane	ug/kg	<25.0	1470	1470	1540	1550	105	106	74-124	1	20		
1,3-Dichlorobenzene	ug/kg	<25.0	1470	1470	1710	1650	116	112	70-130	4	20		
1,4-Dichlorobenzene	ug/kg	<25.0	1470	1470	1640	1590	111	108	70-130	3	20		

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1971507 1971508												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		40198063007	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Benzene	ug/kg	<25.0	1470	1470	1380	1420	94	96	70-130	3	20	
Bromodichloromethane	ug/kg	<25.0	1470	1470	1530	1530	104	104	70-130	0	20	
Bromoform	ug/kg	<25.0	1470	1470	1510	1460	102	99	47-129	3	20	
Bromomethane	ug/kg	<69.9	1470	1470	1120	1200	76	82	41-180	7	20	
Carbon tetrachloride	ug/kg	<25.0	1470	1470	1280	1290	87	88	58-133	0	20	
Chlorobenzene	ug/kg	<25.0	1470	1470	1490	1460	101	100	70-130	2	20	
Chloroethane	ug/kg	<67.0	1470	1470	1290	1340	88	91	28-197	3	20	
Chloroform	ug/kg	<46.4	1470	1470	1360	1410	92	96	80-131	4	20	
Chloromethane	ug/kg	<25.0	1470	1470	1200	1260	82	86	26-118	5	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1470	1470	1250	1270	85	87	70-130	1	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1470	1470	1470	1450	100	99	70-130	1	20	
Dibromochloromethane	ug/kg	<25.0	1470	1470	1540	1480	104	101	67-130	3	20	
Dichlorodifluoromethane	ug/kg	<25.0	1470	1470	885	858	60	58	12-108	3	29	
Ethylbenzene	ug/kg	<25.0	1470	1470	1380	1410	94	96	80-122	2	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1470	1470	1420	1360	97	93	70-130	4	20	
m&p-Xylene	ug/kg	<50.0	2940	2940	2920	2880	99	98	70-130	1	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1470	1470	1580	1510	107	103	70-130	4	20	
Methylene Chloride	ug/kg	<25.0	1470	1470	1310	1370	89	93	70-130	4	20	
o-Xylene	ug/kg	<25.0	1470	1470	1450	1410	99	96	70-130	3	20	
Styrene	ug/kg	<25.0	1470	1470	1470	1460	100	99	70-130	1	20	
Tetrachloroethene	ug/kg	<25.0	1470	1470	1400	1390	95	95	70-130	1	20	
Toluene	ug/kg	<25.0	1470	1470	1500	1490	102	102	80-121	0	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1470	1470	1400	1450	95	98	70-130	3	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1470	1470	1550	1490	105	102	70-130	4	20	
Trichloroethene	ug/kg	<25.0	1470	1470	1370	1370	93	93	70-130	0	20	
Trichlorofluoromethane	ug/kg	<25.0	1470	1470	1340	1340	91	91	60-141	0	26	
Vinyl chloride	ug/kg	<25.0	1470	1470	1270	1290	86	87	46-121	1	20	
4-Bromofluorobenzene (S)	%						85	83	54-126			
Dibromofluoromethane (S)	%						82	86	57-146			
Toluene-d8 (S)	%						92	93	64-134			

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch: 339483 Analysis Method: EPA 8260
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
 Associated Lab Samples: 40198063009, 40198063010, 40198063011, 40198063012, 40198063013, 40198063014, 40198063015,
 40198063016, 40198063017, 40198063018, 40198063019, 40198063020, 40198063021, 40198063022,
 40198063023, 40198063024, 40198063025, 40198063026, 40198063027, 40198063028

METHOD BLANK: 1971771 Matrix: Solid

Associated Lab Samples: 40198063009, 40198063010, 40198063011, 40198063012, 40198063013, 40198063014, 40198063015,
 40198063016, 40198063017, 40198063018, 40198063019, 40198063020, 40198063021, 40198063022,
 40198063023, 40198063024, 40198063025, 40198063026, 40198063027, 40198063028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	11/04/19 07:42	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	11/04/19 07:42	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	11/04/19 07:42	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	11/04/19 07:42	
1,1-Dichloroethane	ug/kg	<17.6	50.0	11/04/19 07:42	
1,1-Dichloroethene	ug/kg	<17.6	50.0	11/04/19 07:42	
1,1-Dichloropropene	ug/kg	<14.0	50.0	11/04/19 07:42	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	11/04/19 07:42	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	11/04/19 07:42	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	11/04/19 07:42	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	11/04/19 07:42	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	11/04/19 07:42	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	11/04/19 07:42	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	11/04/19 07:42	
1,2-Dichloroethane	ug/kg	<15.0	50.0	11/04/19 07:42	
1,2-Dichloropropane	ug/kg	<16.8	50.0	11/04/19 07:42	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	11/04/19 07:42	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	11/04/19 07:42	
1,3-Dichloropropane	ug/kg	<12.0	50.0	11/04/19 07:42	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	11/04/19 07:42	
2,2-Dichloropropane	ug/kg	<12.6	50.0	11/04/19 07:42	
2-Chlorotoluene	ug/kg	<15.8	50.0	11/04/19 07:42	
4-Chlorotoluene	ug/kg	<13.0	50.0	11/04/19 07:42	
Benzene	ug/kg	<9.2	20.0	11/04/19 07:42	
Bromobenzene	ug/kg	<20.6	50.0	11/04/19 07:42	
Bromochloromethane	ug/kg	<21.4	50.0	11/04/19 07:42	
Bromodichloromethane	ug/kg	<9.8	50.0	11/04/19 07:42	
Bromoform	ug/kg	<19.8	50.0	11/04/19 07:42	
Bromomethane	ug/kg	<69.9	250	11/04/19 07:42	
Carbon tetrachloride	ug/kg	<12.1	50.0	11/04/19 07:42	
Chlorobenzene	ug/kg	<14.8	50.0	11/04/19 07:42	
Chloroethane	ug/kg	<67.0	250	11/04/19 07:42	
Chloroform	ug/kg	<46.4	250	11/04/19 07:42	
Chloromethane	ug/kg	<20.4	50.0	11/04/19 07:42	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	11/04/19 07:42	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	11/04/19 07:42	
Dibromochloromethane	ug/kg	<17.9	50.0	11/04/19 07:42	
Dibromomethane	ug/kg	<19.3	50.0	11/04/19 07:42	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

METHOD BLANK: 1971771 Matrix: Solid
Associated Lab Samples: 40198063009, 40198063010, 40198063011, 40198063012, 40198063013, 40198063014, 40198063015, 40198063016, 40198063017, 40198063018, 40198063019, 40198063020, 40198063021, 40198063022, 40198063023, 40198063024, 40198063025, 40198063026, 40198063027, 40198063028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/kg	<12.3	50.0	11/04/19 07:42	
Diisopropyl ether	ug/kg	<17.7	50.0	11/04/19 07:42	
Ethylbenzene	ug/kg	<12.4	50.0	11/04/19 07:42	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	11/04/19 07:42	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	11/04/19 07:42	
m&p-Xylene	ug/kg	<34.4	100	11/04/19 07:42	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	11/04/19 07:42	
Methylene Chloride	ug/kg	<16.2	50.0	11/04/19 07:42	
n-Butylbenzene	ug/kg	<10.5	50.0	11/04/19 07:42	
n-Propylbenzene	ug/kg	<11.6	50.0	11/04/19 07:42	
Naphthalene	ug/kg	<40.0	250	11/04/19 07:42	
o-Xylene	ug/kg	<14.0	50.0	11/04/19 07:42	
p-Isopropyltoluene	ug/kg	<12.0	50.0	11/04/19 07:42	
sec-Butylbenzene	ug/kg	<11.9	50.0	11/04/19 07:42	
Styrene	ug/kg	<9.0	50.0	11/04/19 07:42	
tert-Butylbenzene	ug/kg	<9.5	50.0	11/04/19 07:42	
Tetrachloroethene	ug/kg	<12.9	50.0	11/04/19 07:42	
Toluene	ug/kg	<11.2	50.0	11/04/19 07:42	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	11/04/19 07:42	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	11/04/19 07:42	
Trichloroethene	ug/kg	<23.6	50.0	11/04/19 07:42	
Trichlorofluoromethane	ug/kg	<24.7	50.0	11/04/19 07:42	
Vinyl chloride	ug/kg	<21.1	50.0	11/04/19 07:42	
4-Bromofluorobenzene (S)	%	97	54-126	11/04/19 07:42	
Dibromofluoromethane (S)	%	104	57-146	11/04/19 07:42	
Toluene-d8 (S)	%	106	64-134	11/04/19 07:42	

LABORATORY CONTROL SAMPLE: 1971772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2510	101	70-132	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2320	93	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2500	100	70-130	
1,1-Dichloroethane	ug/kg	2500	2580	103	70-130	
1,1-Dichloroethene	ug/kg	2500	2630	105	77-126	
1,2,4-Trichlorobenzene	ug/kg	2500	2500	100	66-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2040	82	54-129	
1,2-Dibromoethane (EDB)	ug/kg	2500	2530	101	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2460	99	70-130	
1,2-Dichloroethane	ug/kg	2500	2600	104	70-134	
1,2-Dichloropropane	ug/kg	2500	2470	99	74-124	
1,3-Dichlorobenzene	ug/kg	2500	2500	100	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

LABORATORY CONTROL SAMPLE: 1971772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/kg	2500	2400	96	70-130	
Benzene	ug/kg	2500	2470	99	70-130	
Bromodichloromethane	ug/kg	2500	2380	95	70-130	
Bromoform	ug/kg	2500	2410	96	47-115	
Bromomethane	ug/kg	2500	2600	104	64-165	
Carbon tetrachloride	ug/kg	2500	2390	96	70-131	
Chlorobenzene	ug/kg	2500	2550	102	70-130	
Chloroethane	ug/kg	2500	2710	108	28-197	
Chloroform	ug/kg	2500	2380	95	80-131	
Chloromethane	ug/kg	2500	1840	74	45-118	
cis-1,2-Dichloroethene	ug/kg	2500	2310	92	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2280	91	70-130	
Dibromochloromethane	ug/kg	2500	2450	98	70-130	
Dichlorodifluoromethane	ug/kg	2500	1780	71	38-108	
Ethylbenzene	ug/kg	2500	2560	103	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2570	103	70-130	
m&p-Xylene	ug/kg	5000	5210	104	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2370	95	70-130	
Methylene Chloride	ug/kg	2500	2770	111	70-130	
o-Xylene	ug/kg	2500	2500	100	70-130	
Styrene	ug/kg	2500	2570	103	70-130	
Tetrachloroethene	ug/kg	2500	2650	106	70-130	
Toluene	ug/kg	2500	2590	104	80-121	
trans-1,2-Dichloroethene	ug/kg	2500	2710	108	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2370	95	70-130	
Trichloroethene	ug/kg	2500	2610	104	70-130	
Trichlorofluoromethane	ug/kg	2500	2630	105	81-141	
Vinyl chloride	ug/kg	2500	2200	88	68-121	
4-Bromofluorobenzene (S)	%			97	54-126	
Dibromofluoromethane (S)	%			105	57-146	
Toluene-d8 (S)	%			106	64-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1971773 1971774

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40198063012 Result	Spike Conc.	Spike Conc.	MSD Result								
1,1,1-Trichloroethane	ug/kg	<25.0	1600	1600	1660	1670	104	105	64-132	1	20		
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1600	1600	1540	1610	96	101	70-132	5	20		
1,1,2-Trichloroethane	ug/kg	<25.0	1600	1600	1630	1690	102	105	70-130	4	20		
1,1-Dichloroethane	ug/kg	<25.0	1600	1600	1750	1750	109	110	70-130	0	20		
1,1-Dichloroethene	ug/kg	<25.0	1600	1600	1840	1790	115	112	65-126	3	21		
1,2,4-Trichlorobenzene	ug/kg	<47.6	1600	1600	1670	1690	105	106	66-139	1	20		
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1600	1600	1210	1320	76	83	47-146	9	23		
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1600	1600	1680	1710	105	107	70-130	1	20		

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1971773		1971774		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40198063012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,2-Dichlorobenzene	ug/kg	<25.0	1600	1600	1730	1790	108	112	70-130	3	20		
1,2-Dichloroethane	ug/kg	<25.0	1600	1600	1720	1780	107	111	70-136	3	20		
1,2-Dichloropropane	ug/kg	<25.0	1600	1600	1610	1660	101	104	74-124	3	20		
1,3-Dichlorobenzene	ug/kg	<25.0	1600	1600	1690	1710	105	107	70-130	1	20		
1,4-Dichlorobenzene	ug/kg	<25.0	1600	1600	1640	1630	103	102	70-130	1	20		
Benzene	ug/kg	<25.0	1600	1600	1650	1700	103	106	70-130	3	20		
Bromodichloromethane	ug/kg	<25.0	1600	1600	1530	1570	96	98	70-130	2	20		
Bromoform	ug/kg	<25.0	1600	1600	1460	1510	91	95	47-129	4	20		
Bromomethane	ug/kg	<69.9	1600	1600	1890	1920	118	120	41-180	1	20		
Carbon tetrachloride	ug/kg	<25.0	1600	1600	1610	1660	101	104	58-133	3	20		
Chlorobenzene	ug/kg	<25.0	1600	1600	1690	1770	105	111	70-130	5	20		
Chloroethane	ug/kg	<67.0	1600	1600	1900	1970	119	123	28-197	3	20		
Chloroform	ug/kg	<46.4	1600	1600	1610	1640	101	103	80-131	2	20		
Chloromethane	ug/kg	<25.0	1600	1600	1330	1320	83	82	26-118	1	20		
cis-1,2-Dichloroethene	ug/kg	<25.0	1600	1600	1530	1590	95	99	70-130	4	20		
cis-1,3-Dichloropropene	ug/kg	<25.0	1600	1600	1450	1500	91	93	70-130	3	20		
Dibromochloromethane	ug/kg	<25.0	1600	1600	1520	1590	95	99	67-130	5	20		
Dichlorodifluoromethane	ug/kg	<25.0	1600	1600	1260	1160	79	72	12-108	9	29		
Ethylbenzene	ug/kg	<25.0	1600	1600	1690	1720	106	108	80-122	2	20		
Isopropylbenzene (Cumene)	ug/kg	<25.0	1600	1600	1690	1740	105	109	70-130	3	20		
m&p-Xylene	ug/kg	<50.0	3190	3210	3470	3540	108	111	70-130	2	20		
Methyl-tert-butyl ether	ug/kg	<25.0	1600	1600	1580	1650	99	103	70-130	5	20		
Methylene Chloride	ug/kg	<25.0	1600	1600	1860	1880	116	117	70-130	1	20		
o-Xylene	ug/kg	<25.0	1600	1600	1660	1720	104	107	70-130	3	20		
Styrene	ug/kg	<25.0	1600	1600	1660	1720	104	108	70-130	4	20		
Tetrachloroethene	ug/kg	<25.0	1600	1600	1760	1830	110	115	70-130	4	20		
Toluene	ug/kg	<25.0	1600	1600	1720	1760	108	110	80-121	2	20		
trans-1,2-Dichloroethene	ug/kg	<25.0	1600	1600	1850	1850	116	116	70-130	0	20		
trans-1,3-Dichloropropene	ug/kg	<25.0	1600	1600	1500	1520	94	95	70-130	1	20		
Trichloroethene	ug/kg	<25.0	1600	1600	1750	1780	109	111	70-130	2	20		
Trichlorofluoromethane	ug/kg	<25.0	1600	1600	1780	1830	111	115	60-141	3	26		
Vinyl chloride	ug/kg	<25.0	1600	1600	1490	1530	93	95	46-121	3	20		
4-Bromofluorobenzene (S)	%						105	101	54-126				
Dibromofluoromethane (S)	%						114	110	57-146				
Toluene-d8 (S)	%						112	108	64-134				

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch: 339573 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40198063001, 40198063008, 40198063029, 40198063030, 40198063031, 40198063032, 40198063033, 40198063034, 40198063035, 40198063036

METHOD BLANK: 1972151 Matrix: Solid
Associated Lab Samples: 40198063001, 40198063008, 40198063029, 40198063030, 40198063031, 40198063032, 40198063033, 40198063034, 40198063035, 40198063036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	11/04/19 18:02	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	11/04/19 18:02	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	11/04/19 18:02	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	11/04/19 18:02	
1,1-Dichloroethane	ug/kg	<17.6	50.0	11/04/19 18:02	
1,1-Dichloroethene	ug/kg	<17.6	50.0	11/04/19 18:02	
1,1-Dichloropropene	ug/kg	<14.0	50.0	11/04/19 18:02	
1,2,3-Trichlorobenzene	ug/kg	24.0J	50.0	11/04/19 18:02	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	11/04/19 18:02	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	11/04/19 18:02	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	11/04/19 18:02	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	11/04/19 18:02	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	11/04/19 18:02	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	11/04/19 18:02	
1,2-Dichloroethane	ug/kg	<15.0	50.0	11/04/19 18:02	
1,2-Dichloropropane	ug/kg	<16.8	50.0	11/04/19 18:02	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	11/04/19 18:02	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	11/04/19 18:02	
1,3-Dichloropropane	ug/kg	<12.0	50.0	11/04/19 18:02	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	11/04/19 18:02	
2,2-Dichloropropane	ug/kg	<12.6	50.0	11/04/19 18:02	
2-Chlorotoluene	ug/kg	<15.8	50.0	11/04/19 18:02	
4-Chlorotoluene	ug/kg	<13.0	50.0	11/04/19 18:02	
Benzene	ug/kg	<9.2	20.0	11/04/19 18:02	
Bromobenzene	ug/kg	<20.6	50.0	11/04/19 18:02	
Bromochloromethane	ug/kg	<21.4	50.0	11/04/19 18:02	
Bromodichloromethane	ug/kg	<9.8	50.0	11/04/19 18:02	
Bromoform	ug/kg	<19.8	50.0	11/04/19 18:02	
Bromomethane	ug/kg	<69.9	250	11/04/19 18:02	
Carbon tetrachloride	ug/kg	<12.1	50.0	11/04/19 18:02	
Chlorobenzene	ug/kg	<14.8	50.0	11/04/19 18:02	
Chloroethane	ug/kg	<67.0	250	11/04/19 18:02	
Chloroform	ug/kg	<46.4	250	11/04/19 18:02	
Chloromethane	ug/kg	<20.4	50.0	11/04/19 18:02	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	11/04/19 18:02	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	11/04/19 18:02	
Dibromochloromethane	ug/kg	<17.9	50.0	11/04/19 18:02	
Dibromomethane	ug/kg	<19.3	50.0	11/04/19 18:02	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	11/04/19 18:02	
Diisopropyl ether	ug/kg	<17.7	50.0	11/04/19 18:02	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

METHOD BLANK: 1972151

Matrix: Solid

Associated Lab Samples: 40198063001, 40198063008, 40198063029, 40198063030, 40198063031, 40198063032, 40198063033, 40198063034, 40198063035, 40198063036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<12.4	50.0	11/04/19 18:02	
Hexachloro-1,3-butadiene	ug/kg	49.2J	50.0	11/04/19 18:02	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	11/04/19 18:02	
m&p-Xylene	ug/kg	<34.4	100	11/04/19 18:02	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	11/04/19 18:02	
Methylene Chloride	ug/kg	<16.2	50.0	11/04/19 18:02	
n-Butylbenzene	ug/kg	14.0J	50.0	11/04/19 18:02	
n-Propylbenzene	ug/kg	<11.6	50.0	11/04/19 18:02	
Naphthalene	ug/kg	<40.0	250	11/04/19 18:02	
o-Xylene	ug/kg	<14.0	50.0	11/04/19 18:02	
p-Isopropyltoluene	ug/kg	<12.0	50.0	11/04/19 18:02	
sec-Butylbenzene	ug/kg	<11.9	50.0	11/04/19 18:02	
Styrene	ug/kg	<9.0	50.0	11/04/19 18:02	
tert-Butylbenzene	ug/kg	<9.5	50.0	11/04/19 18:02	
Tetrachloroethene	ug/kg	<12.9	50.0	11/04/19 18:02	
Toluene	ug/kg	<11.2	50.0	11/04/19 18:02	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	11/04/19 18:02	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	11/04/19 18:02	
Trichloroethene	ug/kg	<23.6	50.0	11/04/19 18:02	
Trichlorofluoromethane	ug/kg	<24.7	50.0	11/04/19 18:02	
Vinyl chloride	ug/kg	<21.1	50.0	11/04/19 18:02	
Xylene (Total)	ug/kg	<48.4	150	11/04/19 18:02	
4-Bromofluorobenzene (S)	%	94	54-126	11/04/19 18:02	
Dibromofluoromethane (S)	%	105	57-146	11/04/19 18:02	
Toluene-d8 (S)	%	114	64-134	11/04/19 18:02	

LABORATORY CONTROL SAMPLE: 1972152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2500	100	70-132	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2980	119	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2740	109	70-130	
1,1-Dichloroethane	ug/kg	2500	2590	104	70-130	
1,1-Dichloroethene	ug/kg	2500	2780	111	77-126	
1,2,4-Trichlorobenzene	ug/kg	2500	2150	86	66-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2700	108	54-129	
1,2-Dibromoethane (EDB)	ug/kg	2500	2500	100	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2660	107	70-130	
1,2-Dichloroethane	ug/kg	2500	2570	103	70-134	
1,2-Dichloropropane	ug/kg	2500	2730	109	74-124	
1,3-Dichlorobenzene	ug/kg	2500	2820	113	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2730	109	70-130	
Benzene	ug/kg	2500	2410	96	70-130	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

LABORATORY CONTROL SAMPLE: 1972152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/kg	2500	2650	106	70-130	
Bromoform	ug/kg	2500	2320	93	47-115	
Bromomethane	ug/kg	2500	1780	71	64-165	
Carbon tetrachloride	ug/kg	2500	2410	96	70-131	
Chlorobenzene	ug/kg	2500	2590	104	70-130	
Chloroethane	ug/kg	2500	2250	90	28-197	
Chloroform	ug/kg	2500	2310	92	80-131	
Chloromethane	ug/kg	2500	2010	80	45-118	
cis-1,2-Dichloroethene	ug/kg	2500	2200	88	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2430	97	70-130	
Dibromochloromethane	ug/kg	2500	2430	97	70-130	
Dichlorodifluoromethane	ug/kg	2500	1730	69	38-108	
Ethylbenzene	ug/kg	2500	2580	103	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2590	103	70-130	
m&p-Xylene	ug/kg	5000	5470	109	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2500	100	70-130	
Methylene Chloride	ug/kg	2500	2410	96	70-130	
o-Xylene	ug/kg	2500	2620	105	70-130	
Styrene	ug/kg	2500	2670	107	70-130	
Tetrachloroethene	ug/kg	2500	2630	105	70-130	
Toluene	ug/kg	2500	2740	110	80-121	
trans-1,2-Dichloroethene	ug/kg	2500	2510	100	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2600	104	70-130	
Trichloroethene	ug/kg	2500	2440	98	70-130	
Trichlorofluoromethane	ug/kg	2500	2530	101	81-141	
Vinyl chloride	ug/kg	2500	2130	85	68-121	
Xylene (Total)	ug/kg	7500	8090	108	70-130	
4-Bromofluorobenzene (S)	%			103	54-126	
Dibromofluoromethane (S)	%			99	57-146	
Toluene-d8 (S)	%			111	64-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1972153 1972154

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40198063008 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/kg	<25.0	1530	1530	1560	1570	102	103	64-132	1	20		
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1530	1530	1810	1790	118	117	70-132	1	20		
1,1,2-Trichloroethane	ug/kg	<25.0	1530	1530	1690	1630	110	107	70-130	3	20		
1,1-Dichloroethane	ug/kg	<25.0	1530	1530	1630	1680	106	110	70-130	3	20		
1,1-Dichloroethene	ug/kg	<25.0	1530	1530	1730	1760	113	115	65-126	2	21		
1,2,4-Trichlorobenzene	ug/kg	<47.6	1530	1530	1660	1730	109	113	66-139	4	20		
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1530	1530	1690	1800	110	117	47-146	6	23		
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1530	1530	1600	1590	104	104	70-130	1	20		
1,2-Dichlorobenzene	ug/kg	<25.0	1530	1530	1720	1780	112	117	70-130	4	20		

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

PACE Project No.: 40198063

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1972153 1972154												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40198063008 Result	Spike Conc.	Spike Conc.	1972153 Result							
1,2-Dichloroethane	ug/kg	<25.0	1530	1530	1570	1660	103	109	70-136	6	20	
1,2-Dichloropropane	ug/kg	<25.0	1530	1530	1670	1680	109	110	74-124	1	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1530	1530	1710	1750	112	114	70-130	2	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1530	1530	1760	1860	115	121	70-130	5	20	
Benzene	ug/kg	<25.0	1530	1530	1470	1530	96	100	70-130	4	20	
Bromodichloromethane	ug/kg	<25.0	1530	1530	1640	1560	107	102	70-130	5	20	
Bromoform	ug/kg	<25.0	1530	1530	1510	1550	99	102	47-129	3	20	
Bromomethane	ug/kg	<69.9	1530	1530	1190	1360	78	89	41-180	13	20	
Carbon tetrachloride	ug/kg	<25.0	1530	1530	1410	1470	92	96	58-133	4	20	
Chlorobenzene	ug/kg	<25.0	1530	1530	1660	1600	108	105	70-130	3	20	
Chloroethane	ug/kg	<67.0	1530	1530	1480	1590	97	104	28-197	7	20	
Chloroform	ug/kg	<46.4	1530	1530	1420	1480	93	96	80-131	4	20	
Chloromethane	ug/kg	<25.0	1530	1530	1270	1340	83	87	26-118	5	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1530	1530	1340	1380	88	90	70-130	3	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1530	1530	1510	1490	99	98	70-130	1	20	
Dibromochloromethane	ug/kg	<25.0	1530	1530	1610	1580	105	103	67-130	2	20	
Dichlorodifluoromethane	ug/kg	<25.0	1530	1530	950	976	62	64	12-108	3	29	
Ethylbenzene	ug/kg	<25.0	1530	1530	1520	1500	99	98	80-122	1	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1530	1530	1540	1490	100	97	70-130	3	20	
m&p-Xylene	ug/kg	<50.0	3060	3060	3320	3170	108	104	70-130	4	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1530	1530	1590	1570	104	103	70-130	1	20	
Methylene Chloride	ug/kg	<25.0	1530	1530	1520	1710	98	111	70-130	12	20	
o-Xylene	ug/kg	<25.0	1530	1530	1540	1590	101	104	70-130	3	20	
Styrene	ug/kg	<25.0	1530	1530	1620	1590	106	104	70-130	2	20	
Tetrachloroethene	ug/kg	<25.0	1530	1530	1570	1530	103	100	70-130	3	20	
Toluene	ug/kg	<25.0	1530	1530	1670	1580	109	104	80-121	5	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1530	1530	1550	1590	101	104	70-130	2	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1530	1530	1610	1610	105	105	70-130	0	20	
Trichloroethene	ug/kg	<25.0	1530	1530	1560	1500	102	98	70-130	4	20	
Trichlorofluoromethane	ug/kg	<25.0	1530	1530	1540	1530	101	100	60-141	1	26	
Vinyl chloride	ug/kg	<25.0	1530	1530	1370	1330	90	87	46-121	3	20	
Xylene (Total)	ug/kg	<75.0	4590	4590	4860	4760	106	104	70-130	2	20	
4-Bromofluorobenzene (S)	%						73	72	54-126			
Dibromofluoromethane (S)	%						71	76	57-146			
Toluene-d8 (S)	%						80	78	64-134			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch: 338985 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40198063001, 40198063003, 40198063006, 40198063007, 40198063008, 40198063009

METHOD BLANK: 1968904 Matrix: Solid
Associated Lab Samples: 40198063001, 40198063003, 40198063006, 40198063007, 40198063008, 40198063009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	10/30/19 09:34	
2-Methylnaphthalene	ug/kg	<2.4	16.7	10/30/19 09:34	
Acenaphthene	ug/kg	<2.2	16.7	10/30/19 09:34	
Acenaphthylene	ug/kg	<2.1	16.7	10/30/19 09:34	
Anthracene	ug/kg	<2.1	16.7	10/30/19 09:34	
Benzo(a)anthracene	ug/kg	<2.2	16.7	10/30/19 09:34	
Benzo(a)pyrene	ug/kg	<1.9	16.7	10/30/19 09:34	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	10/30/19 09:34	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	10/30/19 09:34	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	10/30/19 09:34	
Chrysene	ug/kg	<3.1	16.7	10/30/19 09:34	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	10/30/19 09:34	
Fluoranthene	ug/kg	<2.0	16.7	10/30/19 09:34	
Fluorene	ug/kg	<2.0	16.7	10/30/19 09:34	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	10/30/19 09:34	
Naphthalene	ug/kg	<1.6	16.7	10/30/19 09:34	
Phenanthrene	ug/kg	<1.9	16.7	10/30/19 09:34	
Pyrene	ug/kg	<2.5	16.7	10/30/19 09:34	
2-Fluorobiphenyl (S)	%	74	28-99	10/30/19 09:34	
Terphenyl-d14 (S)	%	80	10-107	10/30/19 09:34	

LABORATORY CONTROL SAMPLE: 1968905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	262	79	47-104	
2-Methylnaphthalene	ug/kg	333	261	78	50-100	
Acenaphthene	ug/kg	333	263	79	56-113	
Acenaphthylene	ug/kg	333	282	85	55-113	
Anthracene	ug/kg	333	302	91	59-103	
Benzo(a)anthracene	ug/kg	333	261	78	55-102	
Benzo(a)pyrene	ug/kg	333	309	93	59-114	
Benzo(b)fluoranthene	ug/kg	333	284	85	53-124	
Benzo(g,h,i)perylene	ug/kg	333	311	93	48-114	
Benzo(k)fluoranthene	ug/kg	333	319	96	61-118	
Chrysene	ug/kg	333	278	84	62-108	
Dibenz(a,h)anthracene	ug/kg	333	313	94	51-114	
Fluoranthene	ug/kg	333	286	86	59-113	
Fluorene	ug/kg	333	284	85	56-117	
Indeno(1,2,3-cd)pyrene	ug/kg	333	321	96	52-115	
Naphthalene	ug/kg	333	254	76	54-95	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

LABORATORY CONTROL SAMPLE: 1968905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	259	78	58-101	
Pyrene	ug/kg	333	280	84	56-105	
2-Fluorobiphenyl (S)	%			87	28-99	
Terphenyl-d14 (S)	%			77	10-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1968906 1968907

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40198083009 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/kg	2120	429	429	4330	4320	516	513	39-104	0	29	M6
2-Methylnaphthalene	ug/kg	4430	429	429	8990	8930	1060	1050	40-100	1	32	M6
Acenaphthene	ug/kg	<69.5	429	429	367J	345J	86	81	50-113		21	
Acenaphthylene	ug/kg	<67.6	429	429	346J	323J	81	75	42-114		27	
Anthracene	ug/kg	<66.5	429	429	320J	366J	75	85	33-105		21	
Benzo(a)anthracene	ug/kg	<0.069	429	429	368J	363J	71	70	43-102		21	
Benzo(a)pyrene	ug/kg	<0.061	429	429	300J	294J	70	69	34-117		22	
Benzo(b)fluoranthene	ug/kg	<0.074	429	429	299J	266J	63	55	35-124		35	
Benzo(g,h,i)perylene	ug/kg	<94.1	429	429	351J	343J	82	80	10-120		30	
Benzo(k)fluoranthene	ug/kg	<0.069	429	429	292J	314J	62	67	31-128		27	
Chrysene	ug/kg	<0.10	429	429	389J	383J	83	82	39-108		20	
Dibenz(a,h)anthracene	ug/kg	<0.074	429	429	315J	336J	74	78	19-114		28	
Fluoranthene	ug/kg	<63.4	429	429	<63.5	317J	0	74	45-113		22	M6
Fluorene	ug/kg	<64.3	429	429	330J	300J	77	70	48-117		21	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.11	429	429	337J	343J	79	80	10-123		28	
Naphthalene	ug/kg	4.1 mg/kg	429	429	8200	8420	959	1010	32-101	3	27	M6
Phenanthrene	ug/kg	<61.4	429	429	331J	335J	77	78	40-101		20	
Pyrene	ug/kg	<78.8	429	429	368J	362J	86	85	35-105		26	
2-Fluorobiphenyl (S)	%						81	78	28-99			
Terphenyl-d14 (S)	%						74	67	10-107			

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch: 339144 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40198063010, 40198063011, 40198063012, 40198063013, 40198063015

METHOD BLANK: 1969740 Matrix: Solid
Associated Lab Samples: 40198063010, 40198063011, 40198063012, 40198063013, 40198063015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	10/30/19 14:09	
2-Methylnaphthalene	ug/kg	<2.4	16.7	10/30/19 14:09	
Acenaphthene	ug/kg	<2.2	16.7	10/30/19 14:09	
Acenaphthylene	ug/kg	<2.1	16.7	10/30/19 14:09	
Anthracene	ug/kg	<2.1	16.7	10/30/19 14:09	
Benzo(a)anthracene	ug/kg	<2.2	16.7	10/30/19 14:09	
Benzo(a)pyrene	ug/kg	<1.9	16.7	10/30/19 14:09	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	10/30/19 14:09	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	10/30/19 14:09	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	10/30/19 14:09	
Chrysene	ug/kg	<3.1	16.7	10/30/19 14:09	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	10/30/19 14:09	
Fluoranthene	ug/kg	<2.0	16.7	10/30/19 14:09	
Fluorene	ug/kg	<2.0	16.7	10/30/19 14:09	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	10/30/19 14:09	
Naphthalene	ug/kg	<1.6	16.7	10/30/19 14:09	
Phenanthrene	ug/kg	<1.9	16.7	10/30/19 14:09	
Pyrene	ug/kg	<2.5	16.7	10/30/19 14:09	
2-Fluorobiphenyl (S)	%	76	28-99	10/30/19 14:09	
Terphenyl-d14 (S)	%	82	10-107	10/30/19 14:09	

LABORATORY CONTROL SAMPLE: 1969741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	334	232	69	47-104	
2-Methylnaphthalene	ug/kg	334	234	70	50-100	
Acenaphthene	ug/kg	334	239	72	56-113	
Acenaphthylene	ug/kg	334	258	77	55-113	
Anthracene	ug/kg	334	296	89	59-103	
Benzo(a)anthracene	ug/kg	334	240	72	55-102	
Benzo(a)pyrene	ug/kg	334	286	86	59-114	
Benzo(b)fluoranthene	ug/kg	334	270	81	53-124	
Benzo(g,h,i)perylene	ug/kg	334	269	81	48-114	
Benzo(k)fluoranthene	ug/kg	334	290	87	61-118	
Chrysene	ug/kg	334	262	79	62-108	
Dibenz(a,h)anthracene	ug/kg	334	272	82	51-114	
Fluoranthene	ug/kg	334	283	85	59-113	
Fluorene	ug/kg	334	251	75	56-117	
Indeno(1,2,3-cd)pyrene	ug/kg	334	283	85	52-115	
Naphthalene	ug/kg	334	238	71	54-95	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

LABORATORY CONTROL SAMPLE: 1969741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	334	253	76	58-101	
Pyrene	ug/kg	334	253	76	56-105	
2-Fluorobiphenyl (S)	%			78	28-99	
Terphenyl-d14 (S)	%			70	10-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1969742 1969743

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40198057002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/kg	<2.8	381	382	234	262	61	69	39-104	12	29	
2-Methylnaphthalene	ug/kg	<2.8	381	382	229	263	60	69	40-100	14	32	
Acenaphthene	ug/kg	<2.5	381	382	254	279	67	73	50-113	9	21	
Acenaphthylene	ug/kg	<2.4	381	382	275	301	72	79	42-114	9	27	
Anthracene	ug/kg	<2.4	381	382	292	308	77	81	33-105	5	21	
Benzo(a)anthracene	ug/kg	4.0J	381	382	268	280	69	72	43-102	4	21	
Benzo(a)pyrene	ug/kg	2.9J	381	382	307	338	80	88	34-117	10	22	
Benzo(b)fluoranthene	ug/kg	4.5J	381	382	297	313	77	81	35-124	5	35	
Benzo(g,h,i)perylene	ug/kg	<3.4	381	382	283	301	74	78	10-120	6	30	
Benzo(k)fluoranthene	ug/kg	<2.4	381	382	291	314	76	82	31-128	8	27	
Chrysene	ug/kg	<3.6	381	382	269	284	70	73	39-108	5	20	
Dibenz(a,h)anthracene	ug/kg	<2.6	381	382	284	301	75	79	19-114	6	28	
Fluoranthene	ug/kg	5.0J	381	382	292	311	75	80	45-113	6	22	
Fluorene	ug/kg	<2.3	381	382	281	292	74	77	48-117	4	21	
Indeno(1,2,3-cd)pyrene	ug/kg	<4.0	381	382	292	313	76	81	10-123	7	28	
Naphthalene	ug/kg	<1.9	381	382	219	267	57	69	32-101	20	27	
Phenanthrene	ug/kg	<2.2	381	382	264	275	69	72	40-101	4	20	
Pyrene	ug/kg	4.1J	381	382	269	279	70	72	35-105	3	26	
2-Fluorobiphenyl (S)	%						63	74	28-99			
Terphenyl-d14 (S)	%						62	65	10-107			

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch: 339251 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
 Associated Lab Samples: 40198063016, 40198063018, 40198063019, 40198063021, 40198063022, 40198063023, 40198063024

METHOD BLANK: 1970480 Matrix: Solid
 Associated Lab Samples: 40198063016, 40198063018, 40198063019, 40198063021, 40198063022, 40198063023, 40198063024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	10/31/19 11:49	
2-Methylnaphthalene	ug/kg	<2.4	16.7	10/31/19 11:49	
Acenaphthene	ug/kg	<2.2	16.7	10/31/19 11:49	
Acenaphthylene	ug/kg	<2.1	16.7	10/31/19 11:49	
Anthracene	ug/kg	<2.1	16.7	10/31/19 11:49	
Benzo(a)anthracene	ug/kg	<2.2	16.7	10/31/19 11:49	
Benzo(a)pyrene	ug/kg	<1.9	16.7	10/31/19 11:49	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	10/31/19 11:49	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	10/31/19 11:49	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	10/31/19 11:49	
Chrysene	ug/kg	<3.2	16.7	10/31/19 11:49	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	10/31/19 11:49	
Fluoranthene	ug/kg	<2.0	16.7	10/31/19 11:49	
Fluorene	ug/kg	<2.0	16.7	10/31/19 11:49	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	10/31/19 11:49	
Naphthalene	ug/kg	<1.6	16.7	10/31/19 11:49	
Phenanthrene	ug/kg	<1.9	16.7	10/31/19 11:49	
Pyrene	ug/kg	<2.5	16.7	10/31/19 11:49	
2-Fluorobiphenyl (S)	%	72	28-99	10/31/19 11:49	
Terphenyl-d14 (S)	%	79	10-107	10/31/19 11:49	

LABORATORY CONTROL SAMPLE: 1970481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	211	63	47-104	
2-Methylnaphthalene	ug/kg	333	209	63	50-100	
Acenaphthene	ug/kg	333	237	71	56-113	
Acenaphthylene	ug/kg	333	251	75	55-113	
Anthracene	ug/kg	333	296	89	59-103	
Benzo(a)anthracene	ug/kg	333	260	78	55-102	
Benzo(a)pyrene	ug/kg	333	308	92	59-114	
Benzo(b)fluoranthene	ug/kg	333	299	90	53-124	
Benzo(g,h,i)perylene	ug/kg	333	285	85	48-114	
Benzo(k)fluoranthene	ug/kg	333	310	93	61-118	
Chrysene	ug/kg	333	269	81	62-108	
Dibenz(a,h)anthracene	ug/kg	333	296	89	51-114	
Fluoranthene	ug/kg	333	309	93	59-113	
Fluorene	ug/kg	333	271	81	56-117	
Indeno(1,2,3-cd)pyrene	ug/kg	333	300	90	52-115	
Naphthalene	ug/kg	333	222	67	54-95	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

LABORATORY CONTROL SAMPLE: 1970481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	262	79	58-101	
Pyrene	ug/kg	333	252	76	56-105	
2-Fluorobiphenyl (S)	%			72	28-99	
Terphenyl-d14 (S)	%			71	10-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1970482 1970483

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40198063019 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/kg	<2.7	374	373	209	213	56	57	39-104	2	29	
2-Methylnaphthalene	ug/kg	<2.7	374	373	217	216	58	58	40-100	1	32	
Acenaphthene	ug/kg	<2.4	374	373	219	217	59	58	50-113	1	21	
Acenaphthylene	ug/kg	<2.4	374	373	237	227	63	61	42-114	4	27	
Anthracene	ug/kg	<2.3	374	373	242	245	65	66	33-105	1	21	
Benzo(a)anthracene	ug/kg	<2.4	374	373	211	221	57	59	43-102	5	21	
Benzo(a)pyrene	ug/kg	<2.1	374	373	350	282	94	76	34-117	22	22	
Benzo(b)fluoranthene	ug/kg	<2.6	374	373	237	244	63	65	35-124	3	35	
Benzo(g,h,i)perylene	ug/kg	<3.3	374	373	246	246	66	66	10-120	0	30	
Benzo(k)fluoranthene	ug/kg	<2.4	374	373	248	268	66	72	31-128	8	27	
Chrysene	ug/kg	<3.5	374	373	216	228	58	61	39-108	5	20	
Dibenz(a,h)anthracene	ug/kg	<2.6	374	373	243	247	65	66	19-114	2	28	
Fluoranthene	ug/kg	<2.2	374	373	242	251	65	67	45-113	4	22	
Fluorene	ug/kg	<2.2	374	373	236	233	63	62	48-117	1	21	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.9	374	373	250	254	67	68	10-123	2	28	
Naphthalene	ug/kg	2.2J	374	373	223	221	59	59	32-101	1	27	
Phenanthrene	ug/kg	<2.1	374	373	212	212	57	57	40-101	0	20	
Pyrene	ug/kg	<2.7	374	373	208	208	56	56	35-105	0	26	
2-Fluorobiphenyl (S)	%						65	62	28-99			
Terphenyl-d14 (S)	%						53	51	10-107			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

QC Batch: 339392 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40198063017, 40198063025, 40198063026, 40198063027, 40198063028, 40198063030, 40198063031, 40198063032, 40198063033, 40198063034, 40198063035, 40198063036

METHOD BLANK: 1971086 Matrix: Solid
Associated Lab Samples: 40198063017, 40198063025, 40198063026, 40198063027, 40198063028, 40198063030, 40198063031, 40198063032, 40198063033, 40198063034, 40198063035, 40198063036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	11/01/19 11:45	
2-Methylnaphthalene	ug/kg	<2.4	16.7	11/01/19 11:45	
Acenaphthene	ug/kg	<2.2	16.7	11/01/19 11:45	
Acenaphthylene	ug/kg	<2.1	16.7	11/01/19 11:45	
Anthracene	ug/kg	<2.1	16.7	11/01/19 11:45	
Benzo(a)anthracene	ug/kg	<2.2	16.7	11/01/19 11:45	
Benzo(a)pyrene	ug/kg	<1.9	16.7	11/01/19 11:45	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	11/01/19 11:45	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	11/01/19 11:45	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	11/01/19 11:45	
Chrysene	ug/kg	<3.1	16.7	11/01/19 11:45	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	11/01/19 11:45	
Fluoranthene	ug/kg	<2.0	16.7	11/01/19 11:45	
Fluorene	ug/kg	<2.0	16.7	11/01/19 11:45	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	11/01/19 11:45	
Naphthalene	ug/kg	<1.6	16.7	11/01/19 11:45	
Phenanthrene	ug/kg	<1.9	16.7	11/01/19 11:45	
Pyrene	ug/kg	<2.5	16.7	11/01/19 11:45	
2-Fluorobiphenyl (S)	%	86	28-99	11/01/19 11:45	
Terphenyl-d14 (S)	%	87	10-107	11/01/19 11:45	

LABORATORY CONTROL SAMPLE: 1971087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	208	63	47-104	
2-Methylnaphthalene	ug/kg	333	212	63	50-100	
Acenaphthene	ug/kg	333	240	72	56-113	
Acenaphthylene	ug/kg	333	263	79	55-113	
Anthracene	ug/kg	333	276	83	59-103	
Benzo(a)anthracene	ug/kg	333	261	78	55-102	
Benzo(a)pyrene	ug/kg	333	319	96	59-114	
Benzo(b)fluoranthene	ug/kg	333	306	92	53-124	
Benzo(g,h,i)perylene	ug/kg	333	299	90	48-114	
Benzo(k)fluoranthene	ug/kg	333	304	91	61-118	
Chrysene	ug/kg	333	266	80	62-108	
Dibenz(a,h)anthracene	ug/kg	333	299	90	51-114	
Fluoranthene	ug/kg	333	263	79	59-113	
Fluorene	ug/kg	333	278	83	56-117	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

LABORATORY CONTROL SAMPLE: 1971087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	333	306	92	52-115	
Naphthalene	ug/kg	333	231	69	54-95	
Phenanthrene	ug/kg	333	256	77	58-101	
Pyrene	ug/kg	333	256	77	56-105	
2-Fluorobiphenyl (S)	%			76	28-99	
Terphenyl-d14 (S)	%			75	10-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1971088 1971089

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40198063034 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/kg	<2.9	398	398	278	279	70	70	39-104	0	29	
2-Methylnaphthalene	ug/kg	<2.9	398	398	275	270	69	68	40-100	2	32	
Acenaphthene	ug/kg	<2.6	398	398	279	279	70	70	50-113	0	21	
Acenaphthylene	ug/kg	<2.5	398	398	296	302	74	76	42-114	2	27	
Anthracene	ug/kg	<2.5	398	398	298	303	75	76	33-105	2	21	
Benzo(a)anthracene	ug/kg	<2.6	398	398	280	278	70	69	43-102	1	21	
Benzo(a)pyrene	ug/kg	<2.3	398	398	331	325	83	82	34-117	2	22	
Benzo(b)fluoranthene	ug/kg	<2.8	398	398	310	311	78	78	35-124	0	35	
Benzo(g,h,i)perylene	ug/kg	<3.5	398	398	292	283	73	71	10-120	3	30	
Benzo(k)fluoranthene	ug/kg	<2.6	398	398	341	329	86	83	31-128	3	27	
Chrysene	ug/kg	<3.8	398	398	286	285	72	71	39-108	1	20	
Dibenz(a,h)anthracene	ug/kg	<2.8	398	398	292	283	73	71	19-114	3	28	
Fluoranthene	ug/kg	<2.4	398	398	316	318	79	80	45-113	1	22	
Fluorene	ug/kg	<2.4	398	398	283	287	71	72	48-117	1	21	
Indeno(1,2,3-cd)pyrene	ug/kg	<4.2	398	398	300	291	75	73	10-123	3	28	
Naphthalene	ug/kg	<1.9	398	398	278	280	70	70	32-101	1	27	
Phenanthrene	ug/kg	<2.3	398	398	262	271	66	68	40-101	3	20	
Pyrene	ug/kg	<2.9	398	398	281	276	71	69	35-105	2	26	
2-Fluorobiphenyl (S)	%						81	80	28-99			
Terphenyl-d14 (S)	%						64	64	10-107			

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch: 339594

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40198063009

SAMPLE DUPLICATE: 1972292

Parameter	Units	40198063009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.6	13.9	2	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch: 339599

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40198063018

SAMPLE DUPLICATE: 1972302

Parameter	Units	40198063018 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.8	11.1	3	10	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

QC Batch: 339608	Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87	Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40198063013	

SAMPLE DUPLICATE: 1972323

Parameter	Units	40198063013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.3	16.0	5	10	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch: 339621

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40198063016, 40198063017

SAMPLE DUPLICATE: 1972370

Parameter	Units	40197752009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.8	17.5	2	10	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch:	339626	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40198063019, 40198063020, 40198063021, 40198063022, 40198063023, 40198063024, 40198063025		

SAMPLE DUPLICATE: 1972438

Parameter	Units	40197752019 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	37.5	39.9	6	10	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch:	339627	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40198063026, 40198063027, 40198063028, 40198063030, 40198063031, 40198063032, 40198063033, 40198063034, 40198063035, 40198063036		

SAMPLE DUPLICATE: 1972441

Parameter	Units	40197755017 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.6	21.4	4	10	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch:	339741	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40198063001, 40198063002, 40198063003, 40198063006, 40198063007, 40198063008, 40198063010, 40198063011, 40198063012, 40198063014, 40198063015		

SAMPLE DUPLICATE: 1972922

Parameter	Units	40198063001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.8	14.6	8	10	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

QC Batch: 339763

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40198063004

SAMPLE DUPLICATE: 1973079

Parameter	Units	40198505001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.8	19.6	10	10	

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QUALIFIERS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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 at or above the adjusted LOD.

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-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

C4 Sample container did not meet EPA or method requirements.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

R1 RPD value was outside control limits.

W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40198063001	SP-115-0.5-1.5	EPA 3050	338981	EPA 6010	339359
40198063003	SP-115-10-12	EPA 3050	338981	EPA 6010	339359
40198063006	SP-111-0.5-1.5	EPA 3050	338981	EPA 6010	339359
40198063007	SP-111-21-22	EPA 3050	338981	EPA 6010	339359
40198063008	SP-112-0.5-1.5	EPA 3050	338981	EPA 6010	339359
40198063009	SP-112-21-22	EPA 3050	338981	EPA 6010	339359
40198063010	SP-113-0.5-1.5	EPA 3050	338981	EPA 6010	339359
40198063011	SP-113-22-23	EPA 3050	338981	EPA 6010	339359
40198063012	SP-114-0.5-1.5	EPA 3050	338981	EPA 6010	339359
40198063013	SP-114-21-22	EPA 3050	338981	EPA 6010	339359
40198063015	SP-101-8-10	EPA 3050	338981	EPA 6010	339359
40198063016	SP-101-0.5-1.5	EPA 3050	338981	EPA 6010	339359
40198063017	SP-102-0.5-1.5	EPA 3050	338981	EPA 6010	339359
40198063018	SP-102-19-20	EPA 3050	338981	EPA 6010	339359
40198063019	SP-102-19-20D	EPA 3050	338981	EPA 6010	339359
40198063021	SP-103-0.5-1.5	EPA 3050	338981	EPA 6010	339359
40198063022	SP-103-12-14	EPA 3050	338981	EPA 6010	339359
40198063023	SP-104-0.5-1.5	EPA 3050	338981	EPA 6010	339359
40198063024	SP-104-18-19	EPA 3050	338981	EPA 6010	339359
40198063025	SP-105-0.5-1.5	EPA 3050	338981	EPA 6010	339359
40198063026	SP-105-20-21	EPA 3050	338982	EPA 6010	339263
40198063027	SP-106-0.5-1.5	EPA 3050	338982	EPA 6010	339263
40198063028	SP-106-10-12	EPA 3050	338982	EPA 6010	339263
40198063030	SP-108-0.5-1.5	EPA 3050	338982	EPA 6010	339263
40198063031	SP-108-19-20	EPA 3050	338982	EPA 6010	339263
40198063032	SP-108-19-20D	EPA 3050	338982	EPA 6010	339263
40198063033	SP-109-0.5-1.5	EPA 3050	338982	EPA 6010	339263
40198063034	SP-109-18-19	EPA 3050	338982	EPA 6010	339263
40198063035	SP-110-0.5-1.5	EPA 3050	338982	EPA 6010	339263
40198063036	SP-110-18-19	EPA 3050	338982	EPA 6010	339263
40198063001	SP-115-0.5-1.5	EPA 7471	339779	EPA 7471	339824
40198063003	SP-115-10-12	EPA 7471	339779	EPA 7471	339824
40198063006	SP-111-0.5-1.5	EPA 7471	339779	EPA 7471	339824
40198063007	SP-111-21-22	EPA 7471	339779	EPA 7471	339824
40198063008	SP-112-0.5-1.5	EPA 7471	339779	EPA 7471	339824
40198063009	SP-112-21-22	EPA 7471	339779	EPA 7471	339824
40198063010	SP-113-0.5-1.5	EPA 7471	339779	EPA 7471	339824
40198063011	SP-113-22-23	EPA 7471	339779	EPA 7471	339824
40198063012	SP-114-0.5-1.5	EPA 7471	339779	EPA 7471	339824
40198063013	SP-114-21-22	EPA 7471	339779	EPA 7471	339824
40198063015	SP-101-8-10	EPA 7471	339779	EPA 7471	339824
40198063016	SP-101-0.5-1.5	EPA 7471	339779	EPA 7471	339824
40198063017	SP-102-0.5-1.5	EPA 7471	339779	EPA 7471	339824
40198063018	SP-102-19-20	EPA 7471	339779	EPA 7471	339824
40198063019	SP-102-19-20D	EPA 7471	339779	EPA 7471	339824
40198063021	SP-103-0.5-1.5	EPA 7471	339779	EPA 7471	339824
40198063022	SP-103-12-14	EPA 7471	339779	EPA 7471	339824
40198063023	SP-104-0.5-1.5	EPA 7471	339779	EPA 7471	339824

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40198063024	SP-104-18-19	EPA 7471	339780	EPA 7471	339829
40198063025	SP-105-0.5-1.5	EPA 7471	339780	EPA 7471	339829
40198063026	SP-105-20-21	EPA 7471	339780	EPA 7471	339829
40198063027	SP-106-0.5-1.5	EPA 7471	339780	EPA 7471	339829
40198063028	SP-106-10-12	EPA 7471	339780	EPA 7471	339829
40198063030	SP-108-0.5-1.5	EPA 7471	339780	EPA 7471	339829
40198063031	SP-108-19-20	EPA 7471	339780	EPA 7471	339829
40198063032	SP-108-19-20D	EPA 7471	339780	EPA 7471	339829
40198063033	SP-109-0.5-1.5	EPA 7471	339780	EPA 7471	339829
40198063034	SP-109-18-19	EPA 7471	339780	EPA 7471	339829
40198063035	SP-110-0.5-1.5	EPA 7471	339780	EPA 7471	339829
40198063036	SP-110-18-19	EPA 7471	339780	EPA 7471	339829
40198063001	SP-115-0.5-1.5	EPA 3546	338985	EPA 8270 by SIM	339040
40198063003	SP-115-10-12	EPA 3546	338985	EPA 8270 by SIM	339040
40198063006	SP-111-0.5-1.5	EPA 3546	338985	EPA 8270 by SIM	339040
40198063007	SP-111-21-22	EPA 3546	338985	EPA 8270 by SIM	339040
40198063008	SP-112-0.5-1.5	EPA 3546	338985	EPA 8270 by SIM	339040
40198063009	SP-112-21-22	EPA 3546	338985	EPA 8270 by SIM	339040
40198063010	SP-113-0.5-1.5	EPA 3546	339144	EPA 8270 by SIM	339201
40198063011	SP-113-22-23	EPA 3546	339144	EPA 8270 by SIM	339201
40198063012	SP-114-0.5-1.5	EPA 3546	339144	EPA 8270 by SIM	339201
40198063013	SP-114-21-22	EPA 3546	339144	EPA 8270 by SIM	339201
40198063015	SP-101-8-10	EPA 3546	339144	EPA 8270 by SIM	339201
40198063016	SP-101-0.5-1.5	EPA 3546	339251	EPA 8270 by SIM	339303
40198063017	SP-102-0.5-1.5	EPA 3546	339392	EPA 8270 by SIM	339431
40198063018	SP-102-19-20	EPA 3546	339251	EPA 8270 by SIM	339303
40198063019	SP-102-19-20D	EPA 3546	339251	EPA 8270 by SIM	339303
40198063021	SP-103-0.5-1.5	EPA 3546	339251	EPA 8270 by SIM	339303
40198063022	SP-103-12-14	EPA 3546	339251	EPA 8270 by SIM	339303
40198063023	SP-104-0.5-1.5	EPA 3546	339251	EPA 8270 by SIM	339303
40198063024	SP-104-18-19	EPA 3546	339251	EPA 8270 by SIM	339303
40198063025	SP-105-0.5-1.5	EPA 3546	339392	EPA 8270 by SIM	339431
40198063026	SP-105-20-21	EPA 3546	339392	EPA 8270 by SIM	339431
40198063027	SP-106-0.5-1.5	EPA 3546	339392	EPA 8270 by SIM	339431
40198063028	SP-106-10-12	EPA 3546	339392	EPA 8270 by SIM	339431
40198063030	SP-108-0.5-1.5	EPA 3546	339392	EPA 8270 by SIM	339431
40198063031	SP-108-19-20	EPA 3546	339392	EPA 8270 by SIM	339431
40198063032	SP-108-19-20D	EPA 3546	339392	EPA 8270 by SIM	339431
40198063033	SP-109-0.5-1.5	EPA 3546	339392	EPA 8270 by SIM	339431
40198063034	SP-109-18-19	EPA 3546	339392	EPA 8270 by SIM	339431
40198063035	SP-110-0.5-1.5	EPA 3546	339392	EPA 8270 by SIM	339431
40198063036	SP-110-18-19	EPA 3546	339392	EPA 8270 by SIM	339431
40198063001	SP-115-0.5-1.5	EPA 5035/5030B	339573	EPA 8260	339575
40198063002	SP-115-18-20	EPA 5035/5030B	339468	EPA 8260	339470

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198063

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40198063003	SP-115-10-12	EPA 5035/5030B	339468	EPA 8260	339470
40198063004	SP-105-26-27	EPA 5035/5030B	339468	EPA 8260	339470
40198063005	TRIP BLANK	EPA 5035/5030B	339468	EPA 8260	339470
40198063006	SP-111-0.5-1.5	EPA 5035/5030B	339468	EPA 8260	339470
40198063007	SP-111-21-22	EPA 5035/5030B	339468	EPA 8260	339470
40198063008	SP-112-0.5-1.5	EPA 5035/5030B	339573	EPA 8260	339575
40198063009	SP-112-21-22	EPA 5035/5030B	339483	EPA 8260	339484
40198063010	SP-113-0.5-1.5	EPA 5035/5030B	339483	EPA 8260	339484
40198063011	SP-113-22-23	EPA 5035/5030B	339483	EPA 8260	339484
40198063012	SP-114-0.5-1.5	EPA 5035/5030B	339483	EPA 8260	339484
40198063013	SP-114-21-22	EPA 5035/5030B	339483	EPA 8260	339484
40198063014	SP-101-18-20	EPA 5035/5030B	339483	EPA 8260	339484
40198063015	SP-101-8-10	EPA 5035/5030B	339483	EPA 8260	339484
40198063016	SP-101-0.5-1.5	EPA 5035/5030B	339483	EPA 8260	339484
40198063017	SP-102-0.5-1.5	EPA 5035/5030B	339483	EPA 8260	339484
40198063018	SP-102-19-20	EPA 5035/5030B	339483	EPA 8260	339484
40198063019	SP-102-19-20D	EPA 5035/5030B	339483	EPA 8260	339484
40198063020	SP-103-18-20	EPA 5035/5030B	339483	EPA 8260	339484
40198063021	SP-103-0.5-1.5	EPA 5035/5030B	339483	EPA 8260	339484
40198063022	SP-103-12-14	EPA 5035/5030B	339483	EPA 8260	339484
40198063023	SP-104-0.5-1.5	EPA 5035/5030B	339483	EPA 8260	339484
40198063024	SP-104-18-19	EPA 5035/5030B	339483	EPA 8260	339484
40198063025	SP-105-0.5-1.5	EPA 5035/5030B	339483	EPA 8260	339484
40198063026	SP-105-20-21	EPA 5035/5030B	339483	EPA 8260	339484
40198063027	SP-106-0.5-1.5	EPA 5035/5030B	339483	EPA 8260	339484
40198063028	SP-106-10-12	EPA 5035/5030B	339483	EPA 8260	339484
40198063029	SP-106-18-19	EPA 5035/5030B	339573	EPA 8260	339575
40198063030	SP-108-0.5-1.5	EPA 5035/5030B	339573	EPA 8260	339575
40198063031	SP-108-19-20	EPA 5035/5030B	339573	EPA 8260	339575
40198063032	SP-108-19-20D	EPA 5035/5030B	339573	EPA 8260	339575
40198063033	SP-109-0.5-1.5	EPA 5035/5030B	339573	EPA 8260	339575
40198063034	SP-109-18-19	EPA 5035/5030B	339573	EPA 8260	339575
40198063035	SP-110-0.5-1.5	EPA 5035/5030B	339573	EPA 8260	339575
40198063036	SP-110-18-19	EPA 5035/5030B	339573	EPA 8260	339575
40198063001	SP-115-0.5-1.5	ASTM D2974-87	339741		
40198063002	SP-115-18-20	ASTM D2974-87	339741		
40198063003	SP-115-10-12	ASTM D2974-87	339741		
40198063004	SP-105-26-27	ASTM D2974-87	339763		
40198063006	SP-111-0.5-1.5	ASTM D2974-87	339741		
40198063007	SP-111-21-22	ASTM D2974-87	339741		
40198063008	SP-112-0.5-1.5	ASTM D2974-87	339741		
40198063009	SP-112-21-22	ASTM D2974-87	339594		
40198063010	SP-113-0.5-1.5	ASTM D2974-87	339741		
40198063011	SP-113-22-23	ASTM D2974-87	339741		
40198063012	SP-114-0.5-1.5	ASTM D2974-87	339741		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198063

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40198063013	SP-114-21-22	ASTM D2974-87	339608		
40198063014	SP-101-18-20	ASTM D2974-87	339741		
40198063015	SP-101-8-10	ASTM D2974-87	339741		
40198063016	SP-101-0.5-1.5	ASTM D2974-87	339621		
40198063017	SP-102-0.5-1.5	ASTM D2974-87	339621		
40198063018	SP-102-19-20	ASTM D2974-87	339599		
40198063019	SP-102-19-20D	ASTM D2974-87	339626		
40198063020	SP-103-18-20	ASTM D2974-87	339626		
40198063021	SP-103-0.5-1.5	ASTM D2974-87	339626		
40198063022	SP-103-12-14	ASTM D2974-87	339626		
40198063023	SP-104-0.5-1.5	ASTM D2974-87	339626		
40198063024	SP-104-18-19	ASTM D2974-87	339626		
40198063025	SP-105-0.5-1.5	ASTM D2974-87	339626		
40198063026	SP-105-20-21	ASTM D2974-87	339627		
40198063027	SP-106-0.5-1.5	ASTM D2974-87	339627		
40198063028	SP-106-10-12	ASTM D2974-87	339627		
40198063030	SP-108-0.5-1.5	ASTM D2974-87	339627		
40198063031	SP-108-19-20	ASTM D2974-87	339627		
40198063032	SP-108-19-20D	ASTM D2974-87	339627		
40198063033	SP-109-0.5-1.5	ASTM D2974-87	339627		
40198063034	SP-109-18-19	ASTM D2974-87	339627		
40198063035	SP-110-0.5-1.5	ASTM D2974-87	339627		
40198063036	SP-110-18-19	ASTM D2974-87	339627		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **AECOM**
 Branch/Location: **Milwaukee**
 Project Contact: **Lanette Altenbach**
 Phone: **414-944-6186**
 Project Number: **60608519**
 Project Name: **~~XXXX~~ Allenez Phase II**
 Project State: **Wisconsin**
 Sampled By (Print): **Mike Padak**
 Sampled By (Sign): *[Signature]*



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40198063

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	*	x	X								
	Y	X	X								
Analyses Requested	NOCH B&B	QZES H&M	RCRA m&ls								

Quote #: **40198063**
 Mail To Contact: **Lanette Altenbach**
 Mail To Company: **AECOM**
 Mail To Address: **1555 N River Center Drive
 Milwaukee, WI 53212**
 Invoice To Contact: **Lanette Altenbach**
 Invoice To Company: **AECOM**
 Invoice To Address: **1555 N River Center Drive
 Milwaukee, WI 53212**
 Invoice To Phone:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	SP-115-0.5-1.5	10/24/19	1035	S
002	SP-115-18-20	10/24/19	1051	S
003	SP-115-10-12	10/24/19	1046	S
004	SP-105-26-27	10/25/19	1406	S
005	TRIP Blank	10/25/19	1711	W

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: Standard Transmit Prelim Rush Results by (complete what you want): Email #1: Email #2: Telephone: Fax:	Relinquished By: <i>[Signature]</i>	Date/Time: 1805 am	Received By: Alan Pace	Date/Time: 10/25/19 1247	PACE Project No. 40198063
	Relinquished By:	Date/Time:	Received By:	Date/Time:	Receipt Temp = RO1 °C
	Relinquished By:	Date/Time:	Received By:	Date/Time:	Sample Receipt pH OK / Adjusted
	Relinquished By:	Date/Time:	Received By:	Date/Time:	Cooler Custody Seal Present / Not Present Intact / Not Intact
	Relinquished By:	Date/Time:	Received By:	Date/Time:	

(Please Print Clearly)

Company Name: **AECOM**
 Branch/Location: **Dshkvrk**
 Project Contact: **Lanette Allambush**
 Phone: **414-944-6186**
 Project Number: **60609519**
 Project Name: **A7Lance Ph II**
 Project State: **WI**
 Sampled By (Print): **Milly Pantali**
 Sampled By (Sign):



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40198063

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested	Matrix
N	A	VOCs by 820	
N	A	PAHs by 8230	
N	A	PCRA metals	

Quote #:
Mail To Contact: Lanette Allambush
Mail To Company: AECOM
Mail To Address: 185 N River Center Dr, Milwaukee, WI 53212
Invoice To Contact: Lanette Allambush
Invoice To Company: AECOM
Invoice To Address: 185 River Center Dr, Milwaukee, WI 53212
Invoice To Phone:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD (billable)
 On your sample
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
014 001	SP-101-18-20	10/25/19	0557	S
015 002	SP-101-8-10		0552	S
DL6 003	SP-103-0.5-1.5		0547	S
017 004	SP-102-0.5-1.5		1500	S
018 005	SP-102-19-20		1512	S
019 006	SP-102-19-20D		1512	S
020 007	SP-103-18-20		0518	S
021 008	SP-103-0.5-1.5		0515	S
022 009	SP-103-12-14		0510	S
023 010	SP-104-0.5-1.5		1415	S
024 011	SP-104-18-19		1422	S
	SP-104			
	SP-105			

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: Transmit Prelim Rush Results by (complete what you want): Email #1: Email #2: Telephone: Fax: Samples on HOLD are subject to special pricing and release of liability	Relinquished By: Date/Time: 1800 10/25/19	Received By: Alan Pace Date/Time: 10/25/19 1747	PACE Project No. 40198063 Receipt Temp = 601 °C Sample Receipt pH OK / Adjusted Cooler Custody Seal Present / Not Present Intact / Not Intact
	Relinquished By:	Received By:	
	Relinquished By:	Received By:	
	Relinquished By:	Received By:	
	Relinquished By:	Received By:	

10/25/19 (P)
 014
 015
 DL6
 017
 018
 019
 020
 021
 022
 023
 024

(Please Print Clearly)

Company Name: **AECOM**
 Branch/Location: **Oriskany**
 Project Contact: **Lanette Altman**
 Phone: **414-944-0186**
 Project Number: **60608519**
 Project Name: **Allamz Phase II**
 Project State: **WI**
 Sampled By (Print): **Mika Palk**
 Sampled By (Sign): *[Signature]*
 PO #:
 Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

*Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	N	X	N						
Pick Letter	F	A	A						
Analyses Requested	VUC by 8260	PAH by 8270	RCA methods						


Quote #: **40198063**
 Mail To Contact: **Lanette Altman**
 Mail To Company: **AECOM**
 Mail To Address: **1555 N River Center Dr. Milwaukee, WI 53212**
 Invoice To Contact: **AECOM Lanette Altman**
 Invoice To Company: **AECOM**
 Invoice To Address: **1555 N River Center Dr. Milwaukee, WI 53212**
 Invoice To Phone:
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV
 MS/MSD
 On your sample (billable)
 NOT needed on your sample
 Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
025	SP-105-0.5-1.5	10/25/19	1115	S
026	SP-105-20-21	10/25/19	1357	S
027	SP-106-0.5-1.5	10/25/19	1323	S
028	SP-106-10-12	10/25/19	1335	S
029	SP-106-18-19	10/25/19	1344	S
030	SP-108-0.5-1.5	10/25/19	1527	S
031	SP-108-19-20	10/25/19	1535	S
032	SP-108-19-20D	10/25/19	1535	S
033	SP-109-0.5-1.5	10/25/19	1550	S
034	SP-109-18-19	10/25/19	1559	S
	SP-109			
035	SP-110-0.5-1.5	10/25/19	1602	S
036	SP-110-18-19	10/25/19	1607	S

Ⓞ Not Needed per LA
 10-28-19 off report
 on wet weight per LA
 10-28-19

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: **10/25/19**
 Relinquished By: *[Signature]* Date/Time: **1800 10/25/19**
 Received By: **Alan Paie** Date/Time: **10/25/19 1747**
 PACE Project No. **40198063**
 Receipt Temp = **80** °C
 Sample Receipt pH **OK / Adjusted**
 Cooler Custody Seal **Present / Not Present Intact / Not Intact**

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40198063

 Client Name: AECOM

 Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

 Tracking #: N/A

 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

 Custody Seal on Samples Present: yes no Seals intact: yes no

 Packing Material: Bubble Wrap Bubble Bags None Other

 Thermometer Used SR - NA Type of Ice: Wet Blue Dry None

 Samples on ice, cooling process has begun

 Cooler Temperature Uncorr: 20 / Corr: _____

 Temp Blank Present: yes no

 Biological Tissue is Frozen: yes no

Person examining contents:

 Date: 10/26/19

 Initials: PL

 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>pg #</u>
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>Date PS 1,2</u> <u>10/26/19 PL</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4. <u>10/26/19 PL</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<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:	For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>Missing "106 18-19" O2A - possible sample w/o label. for PAH/metals Hold self.</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. <u>Only VOA's needed for -029 per EA 10-28-19 PL</u>
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
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.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>all 10 "114" matched by depth of time. Vial label shed and illegible 19, 26, 29. I TGEU No Label placed on hold self 10/26/19 PL</u>
-Includes date/time/ID/Analysis Matrix: <u>S</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
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): <u>Covered</u>		

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

 If checked, see attached form for additional comments

 Comments/ Resolution: 019 Missing O2A's 10/26/19 PL

Project Manager Review: _____

 Date: 10-28-19

November 04, 2019

Lanette Altenbach
AECOM, Inc.
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198330

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on October 31, 2019. 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,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40198330001	SP-109	Water	10/31/19 09:45	10/31/19 12:40
40198330002	SP-105	Water	10/31/19 10:00	10/31/19 12:40
40198330003	SP-111	Water	10/31/19 10:15	10/31/19 12:40
40198330004	SP-112	Water	10/31/19 10:30	10/31/19 12:40
40198330005	SP-114	Water	10/31/19 10:45	10/31/19 12:40
40198330006	DUP SP-112	Water	10/31/19 10:30	10/31/19 12:40
40198330007	MW-5	Water	10/31/19 11:00	10/31/19 12:40
40198330008	MW-4	Water	10/31/19 11:15	10/31/19 12:40
40198330009	MW-6	Water	10/31/19 11:30	10/31/19 12:40
40198330010	TRIP BLANK	Water	10/31/19 09:30	10/31/19 12:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40198330001	SP-109	EPA 8260	HNW	65	PASI-G
40198330002	SP-105	EPA 8260	HNW	65	PASI-G
40198330003	SP-111	EPA 8260	HNW	65	PASI-G
40198330004	SP-112	EPA 8260	HNW	65	PASI-G
40198330005	SP-114	EPA 8260	HNW	65	PASI-G
40198330006	DUP SP-112	EPA 8260	HNW	65	PASI-G
40198330007	MW-5	EPA 8260	HNW	65	PASI-G
40198330008	MW-4	EPA 8260	HNW	65	PASI-G
40198330009	MW-6	EPA 8260	HNW	65	PASI-G
40198330010	TRIP BLANK	EPA 8260	HNW	65	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198330

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40198330001	SP-109					
EPA 8260	Tetrachloroethene	5.0	ug/L	1.1	11/01/19 16:12	
EPA 8260	Toluene	0.42J	ug/L	5.0	11/01/19 16:12	
40198330002	SP-105					
EPA 8260	Benzene	16.1	ug/L	1.0	11/01/19 16:34	
EPA 8260	cis-1,2-Dichloroethene	25.8	ug/L	1.0	11/01/19 16:34	
EPA 8260	trans-1,2-Dichloroethene	12.9	ug/L	3.6	11/01/19 16:34	
EPA 8260	Ethylbenzene	10.5	ug/L	1.0	11/01/19 16:34	
EPA 8260	Isopropylbenzene (Cumene)	1.9J	ug/L	5.0	11/01/19 16:34	
EPA 8260	Naphthalene	1.8J	ug/L	5.0	11/01/19 16:34	
EPA 8260	n-Propylbenzene	0.95J	ug/L	5.0	11/01/19 16:34	
EPA 8260	Tetrachloroethene	87.3	ug/L	1.1	11/01/19 16:34	
EPA 8260	Toluene	19.7	ug/L	5.0	11/01/19 16:34	
EPA 8260	Trichloroethene	9.0	ug/L	1.0	11/01/19 16:34	
EPA 8260	1,2,4-Trimethylbenzene	15.3	ug/L	2.8	11/01/19 16:34	
EPA 8260	1,3,5-Trimethylbenzene	2.0J	ug/L	2.9	11/01/19 16:34	
EPA 8260	Xylene (Total)	61.3	ug/L	3.0	11/01/19 16:34	
EPA 8260	m&p-Xylene	55.3	ug/L	2.0	11/01/19 16:34	
EPA 8260	o-Xylene	5.9	ug/L	1.0	11/01/19 16:34	
40198330003	SP-111					
EPA 8260	Benzene	0.36J	ug/L	1.0	11/01/19 16:55	
EPA 8260	Tetrachloroethene	2.9	ug/L	1.1	11/01/19 16:55	
EPA 8260	Toluene	0.92J	ug/L	5.0	11/01/19 16:55	
EPA 8260	Trichloroethene	0.73J	ug/L	1.0	11/01/19 16:55	
40198330004	SP-112					
EPA 8260	Tetrachloroethene	33.3	ug/L	1.1	11/01/19 17:16	
40198330005	SP-114					
EPA 8260	Benzene	0.28J	ug/L	1.0	11/01/19 17:38	
EPA 8260	Bromodichloromethane	0.41J	ug/L	1.2	11/01/19 17:38	
EPA 8260	cis-1,2-Dichloroethene	1.7	ug/L	1.0	11/01/19 17:38	
EPA 8260	Tetrachloroethene	25.0	ug/L	1.1	11/01/19 17:38	
EPA 8260	Trichloroethene	2.8	ug/L	1.0	11/01/19 17:38	
40198330006	DUP SP-112					
EPA 8260	Tetrachloroethene	43.6	ug/L	1.1	11/01/19 17:59	
EPA 8260	Toluene	0.28J	ug/L	5.0	11/01/19 17:59	
40198330007	MW-5					
EPA 8260	Benzene	1.6J	ug/L	5.0	11/01/19 22:17	
EPA 8260	n-Butylbenzene	5.8J	ug/L	11.8	11/01/19 22:17	
EPA 8260	cis-1,2-Dichloroethene	79.7	ug/L	5.0	11/01/19 22:17	
EPA 8260	trans-1,2-Dichloroethene	10.6J	ug/L	18.2	11/01/19 22:17	
EPA 8260	Ethylbenzene	92.7	ug/L	5.0	11/01/19 22:17	
EPA 8260	Isopropylbenzene (Cumene)	27.4	ug/L	25.0	11/01/19 22:17	
EPA 8260	Naphthalene	89.6	ug/L	25.0	11/01/19 22:17	
EPA 8260	n-Propylbenzene	54.9	ug/L	25.0	11/01/19 22:17	
EPA 8260	Tetrachloroethene	4.2J	ug/L	5.4	11/01/19 22:17	

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SUMMARY OF DETECTION

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198330

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40198330007	MW-5					
EPA 8260	Toluene	6.2J	ug/L	25.0	11/01/19 22:17	
EPA 8260	1,2,4-Trimethylbenzene	575	ug/L	14.0	11/01/19 22:17	
EPA 8260	1,3,5-Trimethylbenzene	97.8	ug/L	14.6	11/01/19 22:17	
EPA 8260	Xylene (Total)	531	ug/L	15.0	11/01/19 22:17	
EPA 8260	m&p-Xylene	496	ug/L	10.0	11/01/19 22:17	
EPA 8260	o-Xylene	35.1	ug/L	5.0	11/01/19 22:17	
40198330008	MW-4					
EPA 8260	cis-1,2-Dichloroethene	1.5	ug/L	1.0	11/01/19 21:55	
EPA 8260	trans-1,2-Dichloroethene	1.7J	ug/L	3.6	11/01/19 21:55	
EPA 8260	Tetrachloroethene	85.5	ug/L	1.1	11/01/19 21:55	
EPA 8260	Trichloroethene	2.2	ug/L	1.0	11/01/19 21:55	
40198330009	MW-6					
EPA 8260	Benzene	21.7	ug/L	4.0	11/01/19 22:38	
EPA 8260	Chloroform	5.9J	ug/L	20.0	11/01/19 22:38	
EPA 8260	cis-1,2-Dichloroethene	48.4	ug/L	4.0	11/01/19 22:38	
EPA 8260	trans-1,2-Dichloroethene	100	ug/L	14.5	11/01/19 22:38	
EPA 8260	Ethylbenzene	64.6	ug/L	4.0	11/01/19 22:38	
EPA 8260	Isopropylbenzene (Cumene)	5.9J	ug/L	20.0	11/01/19 22:38	
EPA 8260	Naphthalene	16.6J	ug/L	20.0	11/01/19 22:38	
EPA 8260	n-Propylbenzene	8.2J	ug/L	20.0	11/01/19 22:38	
EPA 8260	Tetrachloroethene	101	ug/L	4.4	11/01/19 22:38	
EPA 8260	Toluene	85.4	ug/L	20.0	11/01/19 22:38	
EPA 8260	Trichloroethene	212	ug/L	4.0	11/01/19 22:38	
EPA 8260	1,2,4-Trimethylbenzene	81.9	ug/L	11.2	11/01/19 22:38	
EPA 8260	1,3,5-Trimethylbenzene	10.8J	ug/L	11.6	11/01/19 22:38	
EPA 8260	Xylene (Total)	200	ug/L	12.0	11/01/19 22:38	
EPA 8260	m&p-Xylene	183	ug/L	8.0	11/01/19 22:38	
EPA 8260	o-Xylene	16.4	ug/L	4.0	11/01/19 22:38	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198330

Sample: SP-109 **Lab ID: 40198330001** Collected: 10/31/19 09:45 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		11/01/19 16:12	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/01/19 16:12	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/19 16:12	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/01/19 16:12	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/01/19 16:12	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/01/19 16:12	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 16:12	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/01/19 16:12	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/01/19 16:12	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/01/19 16:12	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 16:12	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/01/19 16:12	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/01/19 16:12	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/01/19 16:12	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/01/19 16:12	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/01/19 16:12	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/01/19 16:12	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/01/19 16:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/01/19 16:12	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/01/19 16:12	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 16:12	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/01/19 16:12	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/01/19 16:12	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/01/19 16:12	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 16:12	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 16:12	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/01/19 16:12	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/01/19 16:12	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/01/19 16:12	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/01/19 16:12	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/01/19 16:12	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/01/19 16:12	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/01/19 16:12	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/01/19 16:12	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/01/19 16:12	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/01/19 16:12	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/01/19 16:12	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/01/19 16:12	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/01/19 16:12	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/01/19 16:12	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/01/19 16:12	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/01/19 16:12	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/01/19 16:12	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/01/19 16:12	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/01/19 16:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 16:12	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: SP-109 **Lab ID: 40198330001** Collected: 10/31/19 09:45 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 16:12	79-34-5	
Tetrachloroethene	5.0	ug/L	1.1	0.33	1		11/01/19 16:12	127-18-4	
Toluene	0.42J	ug/L	5.0	0.17	1		11/01/19 16:12	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/01/19 16:12	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/19 16:12	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/01/19 16:12	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/01/19 16:12	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/01/19 16:12	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/01/19 16:12	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/01/19 16:12	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/01/19 16:12	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/01/19 16:12	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/19 16:12	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/01/19 16:12	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/01/19 16:12	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/01/19 16:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		11/01/19 16:12	460-00-4	pH
Dibromofluoromethane (S)	100	%	70-130		1		11/01/19 16:12	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/01/19 16:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: SP-105 **Lab ID: 40198330002** Collected: 10/31/19 10:00 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	16.1	ug/L	1.0	0.25	1		11/01/19 16:34	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/01/19 16:34	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/19 16:34	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/01/19 16:34	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/01/19 16:34	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/01/19 16:34	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 16:34	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/01/19 16:34	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/01/19 16:34	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/01/19 16:34	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 16:34	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/01/19 16:34	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/01/19 16:34	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/01/19 16:34	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/01/19 16:34	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/01/19 16:34	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/01/19 16:34	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/01/19 16:34	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/01/19 16:34	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/01/19 16:34	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 16:34	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/01/19 16:34	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/01/19 16:34	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/01/19 16:34	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 16:34	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 16:34	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/01/19 16:34	75-35-4	
cis-1,2-Dichloroethene	25.8	ug/L	1.0	0.27	1		11/01/19 16:34	156-59-2	
trans-1,2-Dichloroethene	12.9	ug/L	3.6	1.1	1		11/01/19 16:34	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/01/19 16:34	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/01/19 16:34	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/01/19 16:34	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/01/19 16:34	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/01/19 16:34	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/01/19 16:34	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/01/19 16:34	108-20-3	
Ethylbenzene	10.5	ug/L	1.0	0.22	1		11/01/19 16:34	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/01/19 16:34	87-68-3	
Isopropylbenzene (Cumene)	1.9J	ug/L	5.0	0.39	1		11/01/19 16:34	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/01/19 16:34	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/01/19 16:34	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/01/19 16:34	1634-04-4	
Naphthalene	1.8J	ug/L	5.0	1.2	1		11/01/19 16:34	91-20-3	
n-Propylbenzene	0.95J	ug/L	5.0	0.81	1		11/01/19 16:34	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/01/19 16:34	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 16:34	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: SP-105 **Lab ID: 40198330002** Collected: 10/31/19 10:00 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 16:34	79-34-5	
Tetrachloroethene	87.3	ug/L	1.1	0.33	1		11/01/19 16:34	127-18-4	
Toluene	19.7	ug/L	5.0	0.17	1		11/01/19 16:34	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/01/19 16:34	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/19 16:34	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/01/19 16:34	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/01/19 16:34	79-00-5	
Trichloroethene	9.0	ug/L	1.0	0.26	1		11/01/19 16:34	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/01/19 16:34	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/01/19 16:34	96-18-4	
1,2,4-Trimethylbenzene	15.3	ug/L	2.8	0.84	1		11/01/19 16:34	95-63-6	
1,3,5-Trimethylbenzene	2.0J	ug/L	2.9	0.87	1		11/01/19 16:34	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/19 16:34	75-01-4	
Xylene (Total)	61.3	ug/L	3.0	1.5	1		11/01/19 16:34	1330-20-7	
m&p-Xylene	55.3	ug/L	2.0	0.47	1		11/01/19 16:34	179601-23-1	
o-Xylene	5.9	ug/L	1.0	0.26	1		11/01/19 16:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/01/19 16:34	460-00-4	pH
Dibromofluoromethane (S)	92	%	70-130		1		11/01/19 16:34	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		11/01/19 16:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: SP-111 **Lab ID: 40198330003** Collected: 10/31/19 10:15 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.36J	ug/L	1.0	0.25	1		11/01/19 16:55	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/01/19 16:55	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/19 16:55	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/01/19 16:55	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/01/19 16:55	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/01/19 16:55	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 16:55	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/01/19 16:55	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/01/19 16:55	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/01/19 16:55	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 16:55	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/01/19 16:55	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/01/19 16:55	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/01/19 16:55	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/01/19 16:55	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/01/19 16:55	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/01/19 16:55	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/01/19 16:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/01/19 16:55	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/01/19 16:55	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 16:55	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/01/19 16:55	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/01/19 16:55	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/01/19 16:55	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 16:55	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 16:55	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/01/19 16:55	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/01/19 16:55	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/01/19 16:55	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/01/19 16:55	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/01/19 16:55	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/01/19 16:55	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/01/19 16:55	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/01/19 16:55	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/01/19 16:55	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/01/19 16:55	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/01/19 16:55	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/01/19 16:55	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/01/19 16:55	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/01/19 16:55	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/01/19 16:55	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/01/19 16:55	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/01/19 16:55	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/01/19 16:55	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/01/19 16:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 16:55	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: SP-111 **Lab ID: 40198330003** Collected: 10/31/19 10:15 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 16:55	79-34-5	
Tetrachloroethene	2.9	ug/L	1.1	0.33	1		11/01/19 16:55	127-18-4	
Toluene	0.92J	ug/L	5.0	0.17	1		11/01/19 16:55	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/01/19 16:55	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/19 16:55	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/01/19 16:55	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/01/19 16:55	79-00-5	
Trichloroethene	0.73J	ug/L	1.0	0.26	1		11/01/19 16:55	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/01/19 16:55	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/01/19 16:55	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/01/19 16:55	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/01/19 16:55	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/19 16:55	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/01/19 16:55	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/01/19 16:55	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/01/19 16:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		11/01/19 16:55	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/01/19 16:55	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/01/19 16:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: SP-112 **Lab ID: 40198330004** Collected: 10/31/19 10:30 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/01/19 17:16	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/01/19 17:16	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/19 17:16	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/01/19 17:16	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/01/19 17:16	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/01/19 17:16	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 17:16	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/01/19 17:16	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/01/19 17:16	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/01/19 17:16	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 17:16	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/01/19 17:16	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/01/19 17:16	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/01/19 17:16	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/01/19 17:16	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/01/19 17:16	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/01/19 17:16	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/01/19 17:16	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/01/19 17:16	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/01/19 17:16	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 17:16	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/01/19 17:16	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/01/19 17:16	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/01/19 17:16	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 17:16	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 17:16	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/01/19 17:16	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/01/19 17:16	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/01/19 17:16	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/01/19 17:16	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/01/19 17:16	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/01/19 17:16	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/01/19 17:16	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/01/19 17:16	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/01/19 17:16	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/01/19 17:16	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/01/19 17:16	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/01/19 17:16	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/01/19 17:16	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/01/19 17:16	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/01/19 17:16	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/01/19 17:16	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/01/19 17:16	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/01/19 17:16	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/01/19 17:16	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 17:16	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: SP-112 **Lab ID: 40198330004** Collected: 10/31/19 10:30 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 17:16	79-34-5	
Tetrachloroethene	33.3	ug/L	1.1	0.33	1		11/01/19 17:16	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/01/19 17:16	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/01/19 17:16	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/19 17:16	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/01/19 17:16	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/01/19 17:16	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/01/19 17:16	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/01/19 17:16	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/01/19 17:16	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/01/19 17:16	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/01/19 17:16	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/19 17:16	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/01/19 17:16	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/01/19 17:16	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/01/19 17:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/01/19 17:16	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/01/19 17:16	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/01/19 17:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: SP-114 **Lab ID: 40198330005** Collected: 10/31/19 10:45 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.28J	ug/L	1.0	0.25	1		11/01/19 17:38	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/01/19 17:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/19 17:38	74-97-5	
Bromodichloromethane	0.41J	ug/L	1.2	0.36	1		11/01/19 17:38	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/01/19 17:38	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/01/19 17:38	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 17:38	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/01/19 17:38	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/01/19 17:38	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/01/19 17:38	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 17:38	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/01/19 17:38	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/01/19 17:38	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/01/19 17:38	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/01/19 17:38	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/01/19 17:38	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/01/19 17:38	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/01/19 17:38	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/01/19 17:38	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/01/19 17:38	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 17:38	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/01/19 17:38	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/01/19 17:38	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/01/19 17:38	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 17:38	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 17:38	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/01/19 17:38	75-35-4	
cis-1,2-Dichloroethene	1.7	ug/L	1.0	0.27	1		11/01/19 17:38	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/01/19 17:38	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/01/19 17:38	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/01/19 17:38	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/01/19 17:38	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/01/19 17:38	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/01/19 17:38	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/01/19 17:38	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/01/19 17:38	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/01/19 17:38	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/01/19 17:38	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/01/19 17:38	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/01/19 17:38	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/01/19 17:38	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/01/19 17:38	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/01/19 17:38	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/01/19 17:38	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/01/19 17:38	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 17:38	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: SP-114 **Lab ID: 40198330005** Collected: 10/31/19 10:45 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 17:38	79-34-5	
Tetrachloroethene	25.0	ug/L	1.1	0.33	1		11/01/19 17:38	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/01/19 17:38	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/01/19 17:38	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/19 17:38	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/01/19 17:38	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/01/19 17:38	79-00-5	
Trichloroethene	2.8	ug/L	1.0	0.26	1		11/01/19 17:38	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/01/19 17:38	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/01/19 17:38	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/01/19 17:38	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/01/19 17:38	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/19 17:38	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/01/19 17:38	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/01/19 17:38	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/01/19 17:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		11/01/19 17:38	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		11/01/19 17:38	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/01/19 17:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: DUP SP-112 **Lab ID: 40198330006** Collected: 10/31/19 10:30 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/01/19 17:59	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/01/19 17:59	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/19 17:59	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/01/19 17:59	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/01/19 17:59	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/01/19 17:59	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 17:59	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/01/19 17:59	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/01/19 17:59	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/01/19 17:59	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 17:59	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/01/19 17:59	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/01/19 17:59	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/01/19 17:59	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/01/19 17:59	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/01/19 17:59	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/01/19 17:59	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/01/19 17:59	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/01/19 17:59	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/01/19 17:59	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 17:59	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/01/19 17:59	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/01/19 17:59	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/01/19 17:59	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 17:59	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 17:59	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/01/19 17:59	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/01/19 17:59	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/01/19 17:59	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/01/19 17:59	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/01/19 17:59	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/01/19 17:59	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/01/19 17:59	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/01/19 17:59	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/01/19 17:59	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/01/19 17:59	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/01/19 17:59	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/01/19 17:59	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/01/19 17:59	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/01/19 17:59	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/01/19 17:59	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/01/19 17:59	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/01/19 17:59	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/01/19 17:59	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/01/19 17:59	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 17:59	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: DUP SP-112 **Lab ID: 40198330006** Collected: 10/31/19 10:30 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 17:59	79-34-5	
Tetrachloroethene	43.6	ug/L	1.1	0.33	1		11/01/19 17:59	127-18-4	
Toluene	0.28J	ug/L	5.0	0.17	1		11/01/19 17:59	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/01/19 17:59	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/19 17:59	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/01/19 17:59	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/01/19 17:59	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/01/19 17:59	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/01/19 17:59	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/01/19 17:59	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/01/19 17:59	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/01/19 17:59	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/19 17:59	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/01/19 17:59	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/01/19 17:59	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/01/19 17:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/01/19 17:59	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/01/19 17:59	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/01/19 17:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: MW-5 **Lab ID: 40198330007** Collected: 10/31/19 11:00 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.6J	ug/L	5.0	1.2	5		11/01/19 22:17	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		11/01/19 22:17	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		11/01/19 22:17	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		11/01/19 22:17	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		11/01/19 22:17	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		11/01/19 22:17	74-83-9	
n-Butylbenzene	5.8J	ug/L	11.8	3.5	5		11/01/19 22:17	104-51-8	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		11/01/19 22:17	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		11/01/19 22:17	98-06-6	
Carbon tetrachloride	<0.83	ug/L	5.0	0.83	5		11/01/19 22:17	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		11/01/19 22:17	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		11/01/19 22:17	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		11/01/19 22:17	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		11/01/19 22:17	74-87-3	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		11/01/19 22:17	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		11/01/19 22:17	106-43-4	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		11/01/19 22:17	96-12-8	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		11/01/19 22:17	124-48-1	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		11/01/19 22:17	106-93-4	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		11/01/19 22:17	74-95-3	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		11/01/19 22:17	95-50-1	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		11/01/19 22:17	541-73-1	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		11/01/19 22:17	106-46-7	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		11/01/19 22:17	75-71-8	
1,1-Dichloroethane	<1.4	ug/L	5.0	1.4	5		11/01/19 22:17	75-34-3	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		11/01/19 22:17	107-06-2	
1,1-Dichloroethene	<1.2	ug/L	5.0	1.2	5		11/01/19 22:17	75-35-4	
cis-1,2-Dichloroethene	79.7	ug/L	5.0	1.4	5		11/01/19 22:17	156-59-2	
trans-1,2-Dichloroethene	10.6J	ug/L	18.2	5.5	5		11/01/19 22:17	156-60-5	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		11/01/19 22:17	78-87-5	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		11/01/19 22:17	142-28-9	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		11/01/19 22:17	594-20-7	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		11/01/19 22:17	563-58-6	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		11/01/19 22:17	10061-01-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		11/01/19 22:17	10061-02-6	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		11/01/19 22:17	108-20-3	
Ethylbenzene	92.7	ug/L	5.0	1.1	5		11/01/19 22:17	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	25.0	5.9	5		11/01/19 22:17	87-68-3	
Isopropylbenzene (Cumene)	27.4	ug/L	25.0	2.0	5		11/01/19 22:17	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		11/01/19 22:17	99-87-6	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		11/01/19 22:17	75-09-2	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		11/01/19 22:17	1634-04-4	
Naphthalene	89.6	ug/L	25.0	5.9	5		11/01/19 22:17	91-20-3	
n-Propylbenzene	54.9	ug/L	25.0	4.1	5		11/01/19 22:17	103-65-1	
Styrene	<2.3	ug/L	7.8	2.3	5		11/01/19 22:17	100-42-5	
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		11/01/19 22:17	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: MW-5 **Lab ID: 40198330007** Collected: 10/31/19 11:00 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		11/01/19 22:17	79-34-5	
Tetrachloroethene	4.2J	ug/L	5.4	1.6	5		11/01/19 22:17	127-18-4	
Toluene	6.2J	ug/L	25.0	0.86	5		11/01/19 22:17	108-88-3	
1,2,3-Trichlorobenzene	<3.1	ug/L	25.0	3.1	5		11/01/19 22:17	87-61-6	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		11/01/19 22:17	120-82-1	
1,1,1-Trichloroethane	<1.2	ug/L	5.0	1.2	5		11/01/19 22:17	71-55-6	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		11/01/19 22:17	79-00-5	
Trichloroethene	<1.3	ug/L	5.0	1.3	5		11/01/19 22:17	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		11/01/19 22:17	75-69-4	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		11/01/19 22:17	96-18-4	
1,2,4-Trimethylbenzene	575	ug/L	14.0	4.2	5		11/01/19 22:17	95-63-6	
1,3,5-Trimethylbenzene	97.8	ug/L	14.6	4.4	5		11/01/19 22:17	108-67-8	
Vinyl chloride	<0.87	ug/L	5.0	0.87	5		11/01/19 22:17	75-01-4	
Xylene (Total)	531	ug/L	15.0	7.5	5		11/01/19 22:17	1330-20-7	
m&p-Xylene	496	ug/L	10.0	2.3	5		11/01/19 22:17	179601-23-1	
o-Xylene	35.1	ug/L	5.0	1.3	5		11/01/19 22:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		5		11/01/19 22:17	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		5		11/01/19 22:17	1868-53-7	
Toluene-d8 (S)	102	%	70-130		5		11/01/19 22:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: MW-4 Lab ID: 40198330008 Collected: 10/31/19 11:15 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/01/19 21:55	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/01/19 21:55	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/19 21:55	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/01/19 21:55	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/01/19 21:55	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/01/19 21:55	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 21:55	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/01/19 21:55	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/01/19 21:55	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/01/19 21:55	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 21:55	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/01/19 21:55	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/01/19 21:55	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/01/19 21:55	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/01/19 21:55	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/01/19 21:55	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/01/19 21:55	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/01/19 21:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/01/19 21:55	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/01/19 21:55	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 21:55	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/01/19 21:55	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/01/19 21:55	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/01/19 21:55	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 21:55	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 21:55	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/01/19 21:55	75-35-4	
cis-1,2-Dichloroethene	1.5	ug/L	1.0	0.27	1		11/01/19 21:55	156-59-2	
trans-1,2-Dichloroethene	1.7J	ug/L	3.6	1.1	1		11/01/19 21:55	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/01/19 21:55	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/01/19 21:55	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/01/19 21:55	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/01/19 21:55	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/01/19 21:55	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/01/19 21:55	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/01/19 21:55	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/01/19 21:55	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/01/19 21:55	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/01/19 21:55	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/01/19 21:55	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/01/19 21:55	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/01/19 21:55	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/01/19 21:55	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/01/19 21:55	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/01/19 21:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 21:55	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: MW-4 **Lab ID: 40198330008** Collected: 10/31/19 11:15 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 21:55	79-34-5	
Tetrachloroethene	85.5	ug/L	1.1	0.33	1		11/01/19 21:55	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/01/19 21:55	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/01/19 21:55	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/19 21:55	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/01/19 21:55	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/01/19 21:55	79-00-5	
Trichloroethene	2.2	ug/L	1.0	0.26	1		11/01/19 21:55	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/01/19 21:55	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/01/19 21:55	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/01/19 21:55	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/01/19 21:55	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/19 21:55	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/01/19 21:55	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/01/19 21:55	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/01/19 21:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/01/19 21:55	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/01/19 21:55	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/01/19 21:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: MW-6 **Lab ID: 40198330009** Collected: 10/31/19 11:30 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	21.7	ug/L	4.0	0.99	4		11/01/19 22:38	71-43-2	
Bromobenzene	<0.96	ug/L	4.0	0.96	4		11/01/19 22:38	108-86-1	
Bromochloromethane	<1.4	ug/L	20.0	1.4	4		11/01/19 22:38	74-97-5	
Bromodichloromethane	<1.5	ug/L	4.8	1.5	4		11/01/19 22:38	75-27-4	
Bromoform	<15.9	ug/L	53.0	15.9	4		11/01/19 22:38	75-25-2	
Bromomethane	<3.9	ug/L	20.0	3.9	4		11/01/19 22:38	74-83-9	
n-Butylbenzene	<2.8	ug/L	9.4	2.8	4		11/01/19 22:38	104-51-8	
sec-Butylbenzene	<3.4	ug/L	20.0	3.4	4		11/01/19 22:38	135-98-8	
tert-Butylbenzene	<1.2	ug/L	4.1	1.2	4		11/01/19 22:38	98-06-6	
Carbon tetrachloride	<0.66	ug/L	4.0	0.66	4		11/01/19 22:38	56-23-5	
Chlorobenzene	<2.8	ug/L	9.5	2.8	4		11/01/19 22:38	108-90-7	
Chloroethane	<5.4	ug/L	20.0	5.4	4		11/01/19 22:38	75-00-3	
Chloroform	5.9J	ug/L	20.0	5.1	4		11/01/19 22:38	67-66-3	
Chloromethane	<8.8	ug/L	29.2	8.8	4		11/01/19 22:38	74-87-3	
2-Chlorotoluene	<3.7	ug/L	20.0	3.7	4		11/01/19 22:38	95-49-8	
4-Chlorotoluene	<3.0	ug/L	10.1	3.0	4		11/01/19 22:38	106-43-4	
1,2-Dibromo-3-chloropropane	<7.1	ug/L	23.5	7.1	4		11/01/19 22:38	96-12-8	
Dibromochloromethane	<10.4	ug/L	34.7	10.4	4		11/01/19 22:38	124-48-1	
1,2-Dibromoethane (EDB)	<3.3	ug/L	11.1	3.3	4		11/01/19 22:38	106-93-4	
Dibromomethane	<3.7	ug/L	12.5	3.7	4		11/01/19 22:38	74-95-3	
1,2-Dichlorobenzene	<2.8	ug/L	9.4	2.8	4		11/01/19 22:38	95-50-1	
1,3-Dichlorobenzene	<2.5	ug/L	8.4	2.5	4		11/01/19 22:38	541-73-1	
1,4-Dichlorobenzene	<3.8	ug/L	12.6	3.8	4		11/01/19 22:38	106-46-7	
Dichlorodifluoromethane	<2.0	ug/L	20.0	2.0	4		11/01/19 22:38	75-71-8	
1,1-Dichloroethane	<1.1	ug/L	4.0	1.1	4		11/01/19 22:38	75-34-3	
1,2-Dichloroethane	<1.1	ug/L	4.0	1.1	4		11/01/19 22:38	107-06-2	
1,1-Dichloroethene	<0.98	ug/L	4.0	0.98	4		11/01/19 22:38	75-35-4	
cis-1,2-Dichloroethene	48.4	ug/L	4.0	1.1	4		11/01/19 22:38	156-59-2	
trans-1,2-Dichloroethene	100	ug/L	14.5	4.4	4		11/01/19 22:38	156-60-5	
1,2-Dichloropropane	<1.1	ug/L	4.0	1.1	4		11/01/19 22:38	78-87-5	
1,3-Dichloropropane	<3.3	ug/L	11.0	3.3	4		11/01/19 22:38	142-28-9	
2,2-Dichloropropane	<9.1	ug/L	30.2	9.1	4		11/01/19 22:38	594-20-7	
1,1-Dichloropropene	<2.2	ug/L	7.2	2.2	4		11/01/19 22:38	563-58-6	
cis-1,3-Dichloropropene	<14.5	ug/L	48.4	14.5	4		11/01/19 22:38	10061-01-5	
trans-1,3-Dichloropropene	<17.5	ug/L	58.3	17.5	4		11/01/19 22:38	10061-02-6	
Diisopropyl ether	<7.6	ug/L	25.2	7.6	4		11/01/19 22:38	108-20-3	
Ethylbenzene	64.6	ug/L	4.0	0.87	4		11/01/19 22:38	100-41-4	
Hexachloro-1,3-butadiene	<4.7	ug/L	20.0	4.7	4		11/01/19 22:38	87-68-3	
Isopropylbenzene (Cumene)	5.9J	ug/L	20.0	1.6	4		11/01/19 22:38	98-82-8	
p-Isopropyltoluene	<3.2	ug/L	10.7	3.2	4		11/01/19 22:38	99-87-6	
Methylene Chloride	<2.3	ug/L	20.0	2.3	4		11/01/19 22:38	75-09-2	
Methyl-tert-butyl ether	<5.0	ug/L	16.6	5.0	4		11/01/19 22:38	1634-04-4	
Naphthalene	16.6J	ug/L	20.0	4.7	4		11/01/19 22:38	91-20-3	
n-Propylbenzene	8.2J	ug/L	20.0	3.2	4		11/01/19 22:38	103-65-1	
Styrene	<1.9	ug/L	6.2	1.9	4		11/01/19 22:38	100-42-5	
1,1,1,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		11/01/19 22:38	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: MW-6 **Lab ID: 40198330009** Collected: 10/31/19 11:30 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		11/01/19 22:38	79-34-5	
Tetrachloroethene	101	ug/L	4.4	1.3	4		11/01/19 22:38	127-18-4	
Toluene	85.4	ug/L	20.0	0.69	4		11/01/19 22:38	108-88-3	
1,2,3-Trichlorobenzene	<2.5	ug/L	20.0	2.5	4		11/01/19 22:38	87-61-6	
1,2,4-Trichlorobenzene	<3.8	ug/L	20.0	3.8	4		11/01/19 22:38	120-82-1	
1,1,1-Trichloroethane	<0.98	ug/L	4.0	0.98	4		11/01/19 22:38	71-55-6	
1,1,2-Trichloroethane	<2.2	ug/L	20.0	2.2	4		11/01/19 22:38	79-00-5	
Trichloroethene	212	ug/L	4.0	1.0	4		11/01/19 22:38	79-01-6	
Trichlorofluoromethane	<0.86	ug/L	4.0	0.86	4		11/01/19 22:38	75-69-4	
1,2,3-Trichloropropane	<2.4	ug/L	20.0	2.4	4		11/01/19 22:38	96-18-4	
1,2,4-Trimethylbenzene	81.9	ug/L	11.2	3.4	4		11/01/19 22:38	95-63-6	
1,3,5-Trimethylbenzene	10.8J	ug/L	11.6	3.5	4		11/01/19 22:38	108-67-8	
Vinyl chloride	<0.70	ug/L	4.0	0.70	4		11/01/19 22:38	75-01-4	
Xylene (Total)	200	ug/L	12.0	6.0	4		11/01/19 22:38	1330-20-7	
m&p-Xylene	183	ug/L	8.0	1.9	4		11/01/19 22:38	179601-23-1	
o-Xylene	16.4	ug/L	4.0	1.0	4		11/01/19 22:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		4		11/01/19 22:38	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		4		11/01/19 22:38	1868-53-7	
Toluene-d8 (S)	102	%	70-130		4		11/01/19 22:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Sample: TRIP BLANK **Lab ID: 40198330010** Collected: 10/31/19 09:30 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		11/01/19 15:29	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/01/19 15:29	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/19 15:29	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/01/19 15:29	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/01/19 15:29	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/01/19 15:29	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 15:29	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/01/19 15:29	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/01/19 15:29	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/01/19 15:29	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 15:29	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/01/19 15:29	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/01/19 15:29	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/01/19 15:29	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/01/19 15:29	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/01/19 15:29	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/01/19 15:29	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/01/19 15:29	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/01/19 15:29	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/01/19 15:29	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/01/19 15:29	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/01/19 15:29	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/01/19 15:29	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/01/19 15:29	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 15:29	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 15:29	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/01/19 15:29	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/01/19 15:29	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/01/19 15:29	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/01/19 15:29	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/01/19 15:29	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/01/19 15:29	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/01/19 15:29	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/01/19 15:29	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/01/19 15:29	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/01/19 15:29	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/01/19 15:29	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/01/19 15:29	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/01/19 15:29	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/01/19 15:29	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/01/19 15:29	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/01/19 15:29	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/01/19 15:29	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/01/19 15:29	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/01/19 15:29	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/01/19 15:29	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PHASE II ESA
Pace Project No.: 40198330

Sample: TRIP BLANK **Lab ID: 40198330010** Collected: 10/31/19 09:30 Received: 10/31/19 12:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/01/19 15:29	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/01/19 15:29	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/01/19 15:29	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/01/19 15:29	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/19 15:29	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/01/19 15:29	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/01/19 15:29	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/01/19 15:29	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/01/19 15:29	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/01/19 15:29	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/01/19 15:29	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/01/19 15:29	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/19 15:29	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/01/19 15:29	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/01/19 15:29	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/01/19 15:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/01/19 15:29	460-00-4	HS
Dibromofluoromethane (S)	99	%	70-130		1		11/01/19 15:29	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/01/19 15:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

QC Batch: 339381

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 40198330001, 40198330002, 40198330003, 40198330004, 40198330005, 40198330006, 40198330007, 40198330008, 40198330009

METHOD BLANK: 1971029

Matrix: Water

Associated Lab Samples: 40198330001, 40198330002, 40198330003, 40198330004, 40198330005, 40198330006, 40198330007, 40198330008, 40198330009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/01/19 12:38	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/01/19 12:38	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/01/19 12:38	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/01/19 12:38	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/01/19 12:38	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/01/19 12:38	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/01/19 12:38	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/01/19 12:38	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/01/19 12:38	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/01/19 12:38	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/01/19 12:38	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/01/19 12:38	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/01/19 12:38	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/01/19 12:38	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/01/19 12:38	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/01/19 12:38	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/01/19 12:38	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/01/19 12:38	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/01/19 12:38	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/01/19 12:38	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/01/19 12:38	
2-Chlorotoluene	ug/L	<0.93	5.0	11/01/19 12:38	
4-Chlorotoluene	ug/L	<0.76	2.5	11/01/19 12:38	
Benzene	ug/L	<0.25	1.0	11/01/19 12:38	
Bromobenzene	ug/L	<0.24	1.0	11/01/19 12:38	
Bromochloromethane	ug/L	<0.36	5.0	11/01/19 12:38	
Bromodichloromethane	ug/L	<0.36	1.2	11/01/19 12:38	
Bromoform	ug/L	<4.0	13.2	11/01/19 12:38	
Bromomethane	ug/L	<0.97	5.0	11/01/19 12:38	
Carbon tetrachloride	ug/L	<0.17	1.0	11/01/19 12:38	
Chlorobenzene	ug/L	<0.71	2.4	11/01/19 12:38	
Chloroethane	ug/L	<1.3	5.0	11/01/19 12:38	
Chloroform	ug/L	<1.3	5.0	11/01/19 12:38	
Chloromethane	ug/L	<2.2	7.3	11/01/19 12:38	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/01/19 12:38	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/01/19 12:38	
Dibromochloromethane	ug/L	<2.6	8.7	11/01/19 12:38	
Dibromomethane	ug/L	<0.94	3.1	11/01/19 12:38	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/01/19 12:38	
Diisopropyl ether	ug/L	<1.9	6.3	11/01/19 12:38	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

METHOD BLANK: 1971029

Matrix: Water

Associated Lab Samples: 40198330001, 40198330002, 40198330003, 40198330004, 40198330005, 40198330006, 40198330007, 40198330008, 40198330009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.22	1.0	11/01/19 12:38	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/01/19 12:38	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/01/19 12:38	
m&p-Xylene	ug/L	<0.47	2.0	11/01/19 12:38	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/01/19 12:38	
Methylene Chloride	ug/L	<0.58	5.0	11/01/19 12:38	
n-Butylbenzene	ug/L	<0.71	2.4	11/01/19 12:38	
n-Propylbenzene	ug/L	<0.81	5.0	11/01/19 12:38	
Naphthalene	ug/L	<1.2	5.0	11/01/19 12:38	
o-Xylene	ug/L	<0.26	1.0	11/01/19 12:38	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/01/19 12:38	
sec-Butylbenzene	ug/L	<0.85	5.0	11/01/19 12:38	
Styrene	ug/L	<0.47	1.6	11/01/19 12:38	
tert-Butylbenzene	ug/L	<0.30	1.0	11/01/19 12:38	
Tetrachloroethene	ug/L	<0.33	1.1	11/01/19 12:38	
Toluene	ug/L	<0.17	5.0	11/01/19 12:38	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/01/19 12:38	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/01/19 12:38	
Trichloroethene	ug/L	<0.26	1.0	11/01/19 12:38	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/01/19 12:38	
Vinyl chloride	ug/L	<0.17	1.0	11/01/19 12:38	
Xylene (Total)	ug/L	<1.5	3.0	11/01/19 12:38	
4-Bromofluorobenzene (S)	%	89	70-130	11/01/19 12:38	
Dibromofluoromethane (S)	%	99	70-130	11/01/19 12:38	
Toluene-d8 (S)	%	97	70-130	11/01/19 12:38	

LABORATORY CONTROL SAMPLE: 1971030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.4	107	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	46.5	93	70-130	
1,1,2-Trichloroethane	ug/L	50	50.1	100	70-130	
1,1-Dichloroethane	ug/L	50	54.2	108	73-150	
1,1-Dichloroethene	ug/L	50	52.9	106	73-138	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.9	88	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	48.9	98	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	47.9	96	75-140	
1,2-Dichloropropane	ug/L	50	46.6	93	73-135	
1,3-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,4-Dichlorobenzene	ug/L	50	50.6	101	70-130	
Benzene	ug/L	50	48.5	97	70-130	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

LABORATORY CONTROL SAMPLE: 1971030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	50	48.5	97	70-130	
Bromoform	ug/L	50	48.4	97	68-129	
Bromomethane	ug/L	50	39.2	78	18-159	
Carbon tetrachloride	ug/L	50	53.1	106	70-130	
Chlorobenzene	ug/L	50	51.7	103	70-130	
Chloroethane	ug/L	50	49.2	98	53-147	
Chloroform	ug/L	50	47.1	94	74-136	
Chloromethane	ug/L	50	46.0	92	29-115	
cis-1,2-Dichloroethene	ug/L	50	48.4	97	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.0	98	70-130	
Dibromochloromethane	ug/L	50	51.8	104	70-130	
Dichlorodifluoromethane	ug/L	50	49.4	99	10-130	
Ethylbenzene	ug/L	50	54.1	108	80-124	
Isopropylbenzene (Cumene)	ug/L	50	50.3	101	70-130	
m&p-Xylene	ug/L	100	111	111	70-130	
Methyl-tert-butyl ether	ug/L	50	46.7	93	54-137	
Methylene Chloride	ug/L	50	49.8	100	73-138	
o-Xylene	ug/L	50	54.1	108	70-130	
Styrene	ug/L	50	49.0	98	70-130	
Tetrachloroethene	ug/L	50	52.6	105	70-130	
Toluene	ug/L	50	52.6	105	80-126	
trans-1,2-Dichloroethene	ug/L	50	54.6	109	73-145	
trans-1,3-Dichloropropene	ug/L	50	46.9	94	70-130	
Trichloroethene	ug/L	50	52.2	104	70-130	
Trichlorofluoromethane	ug/L	50	52.7	105	76-147	
Vinyl chloride	ug/L	50	53.1	106	51-120	
Xylene (Total)	ug/L	150	165	110	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1971031 1971032

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40198330001 Result	Spike Conc.	Spike Conc.	Result							Result
1,1,1-Trichloroethane	ug/L	<0.24	50	50	54.1	52.8	108	106	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	46.6	48.0	93	96	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	49.3	49.6	99	99	70-137	0	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	54.4	53.9	109	108	73-153	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	52.8	51.5	106	103	73-138	3	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	49.0	49.6	98	99	70-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	45.8	47.1	92	94	58-129	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50.3	49.9	101	100	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.4	50.5	101	101	70-130	0	20	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1971031		1971032		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40198330001 Result	MS Spike Conc.	MSD Spike Conc.									
1,2-Dichloroethane	ug/L	<0.28	50	50	49.3	49.8	99	100	75-140	1	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	47.4	48.1	95	96	71-138	1	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	48.9	49.6	98	99	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.0	50.6	100	101	70-130	1	20		
Benzene	ug/L	<0.25	50	50	49.4	48.5	99	97	70-130	2	20		
Bromodichloromethane	ug/L	<0.36	50	50	50.5	48.8	101	98	70-130	3	20		
Bromoform	ug/L	<4.0	50	50	48.7	49.1	97	98	68-129	1	20		
Bromomethane	ug/L	<0.97	50	50	40.3	38.9	81	78	15-170	4	20		
Carbon tetrachloride	ug/L	<0.17	50	50	53.4	52.4	107	105	70-130	2	20		
Chlorobenzene	ug/L	<0.71	50	50	52.3	51.2	105	102	70-130	2	20		
Chloroethane	ug/L	<1.3	50	50	53.6	51.5	107	103	51-148	4	20		
Chloroform	ug/L	<1.3	50	50	48.2	47.1	96	94	74-136	2	20		
Chloromethane	ug/L	<2.2	50	50	47.9	47.4	95	94	23-115	1	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	48.6	48.7	97	97	70-131	0	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	50.6	49.0	101	98	70-130	3	20		
Dibromochloromethane	ug/L	<2.6	50	50	52.7	52.5	105	105	70-130	0	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	50.0	48.6	100	97	10-132	3	20		
Ethylbenzene	ug/L	<0.22	50	50	54.4	53.0	109	106	80-125	3	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	50.7	49.7	101	99	70-130	2	20		
m&p-Xylene	ug/L	<0.47	100	100	112	112	112	111	70-130	0	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	47.6	47.0	95	94	51-145	1	20		
Methylene Chloride	ug/L	<0.58	50	50	51.2	49.4	102	99	73-140	4	20		
o-Xylene	ug/L	<0.26	50	50	55.5	54.0	111	108	70-130	3	20		
Styrene	ug/L	<0.47	50	50	50.6	49.6	101	99	70-130	2	20		
Tetrachloroethene	ug/L	5.0	50	50	56.6	54.5	103	99	70-130	4	20		
Toluene	ug/L	0.42J	50	50	53.9	52.5	107	104	80-131	3	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	55.3	55.2	111	110	73-148	0	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	47.0	46.0	94	92	70-130	2	20		
Trichloroethene	ug/L	<0.26	50	50	52.4	52.5	105	105	70-130	0	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	54.1	53.0	108	106	74-147	2	20		
Vinyl chloride	ug/L	<0.17	50	50	54.2	54.1	108	108	41-129	0	20		
Xylene (Total)	ug/L	<1.5	150	150	168	165	112	110	70-130	1	20		
4-Bromofluorobenzene (S)	%						100	100	70-130			pH	
Dibromofluoromethane (S)	%						97	95	70-130				
Toluene-d8 (S)	%						97	98	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

QC Batch: 339432	Analysis Method: EPA 8260
QC Batch Method: EPA 8260	Analysis Description: 8260 MSV
Associated Lab Samples: 40198330010	

METHOD BLANK: 1971231 Matrix: Water
Associated Lab Samples: 40198330010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/01/19 07:01	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/01/19 07:01	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/01/19 07:01	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/01/19 07:01	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/01/19 07:01	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/01/19 07:01	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/01/19 07:01	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/01/19 07:01	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/01/19 07:01	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/01/19 07:01	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/01/19 07:01	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/01/19 07:01	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/01/19 07:01	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/01/19 07:01	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/01/19 07:01	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/01/19 07:01	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/01/19 07:01	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/01/19 07:01	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/01/19 07:01	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/01/19 07:01	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/01/19 07:01	
2-Chlorotoluene	ug/L	<0.93	5.0	11/01/19 07:01	
4-Chlorotoluene	ug/L	<0.76	2.5	11/01/19 07:01	
Benzene	ug/L	<0.25	1.0	11/01/19 07:01	
Bromobenzene	ug/L	<0.24	1.0	11/01/19 07:01	
Bromochloromethane	ug/L	<0.36	5.0	11/01/19 07:01	
Bromodichloromethane	ug/L	<0.36	1.2	11/01/19 07:01	
Bromoform	ug/L	<4.0	13.2	11/01/19 07:01	
Bromomethane	ug/L	<0.97	5.0	11/01/19 07:01	
Carbon tetrachloride	ug/L	<0.17	1.0	11/01/19 07:01	
Chlorobenzene	ug/L	<0.71	2.4	11/01/19 07:01	
Chloroethane	ug/L	<1.3	5.0	11/01/19 07:01	
Chloroform	ug/L	<1.3	5.0	11/01/19 07:01	
Chloromethane	ug/L	<2.2	7.3	11/01/19 07:01	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/01/19 07:01	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/01/19 07:01	
Dibromochloromethane	ug/L	<2.6	8.7	11/01/19 07:01	
Dibromomethane	ug/L	<0.94	3.1	11/01/19 07:01	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/01/19 07:01	
Diisopropyl ether	ug/L	<1.9	6.3	11/01/19 07:01	
Ethylbenzene	ug/L	<0.22	1.0	11/01/19 07:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

METHOD BLANK: 1971231

Matrix: Water

Associated Lab Samples: 40198330010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/01/19 07:01	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/01/19 07:01	
m&p-Xylene	ug/L	<0.47	2.0	11/01/19 07:01	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/01/19 07:01	
Methylene Chloride	ug/L	<0.58	5.0	11/01/19 07:01	
n-Butylbenzene	ug/L	<0.71	2.4	11/01/19 07:01	
n-Propylbenzene	ug/L	<0.81	5.0	11/01/19 07:01	
Naphthalene	ug/L	<1.2	5.0	11/01/19 07:01	
o-Xylene	ug/L	<0.26	1.0	11/01/19 07:01	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/01/19 07:01	
sec-Butylbenzene	ug/L	<0.85	5.0	11/01/19 07:01	
Styrene	ug/L	<0.47	1.6	11/01/19 07:01	
tert-Butylbenzene	ug/L	<0.30	1.0	11/01/19 07:01	
Tetrachloroethene	ug/L	<0.33	1.1	11/01/19 07:01	
Toluene	ug/L	<0.17	5.0	11/01/19 07:01	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/01/19 07:01	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/01/19 07:01	
Trichloroethene	ug/L	<0.26	1.0	11/01/19 07:01	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/01/19 07:01	
Vinyl chloride	ug/L	<0.17	1.0	11/01/19 07:01	
Xylene (Total)	ug/L	<1.5	3.0	11/01/19 07:01	
4-Bromofluorobenzene (S)	%	91	70-130	11/01/19 07:01	
Dibromofluoromethane (S)	%	98	70-130	11/01/19 07:01	
Toluene-d8 (S)	%	98	70-130	11/01/19 07:01	

LABORATORY CONTROL SAMPLE: 1971232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.2	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.5	95	70-130	
1,1,2-Trichloroethane	ug/L	50	51.3	103	70-130	
1,1-Dichloroethane	ug/L	50	55.7	111	73-150	
1,1-Dichloroethene	ug/L	50	54.3	109	73-138	
1,2,4-Trichlorobenzene	ug/L	50	50.0	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.2	90	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	50.5	101	70-130	
1,2-Dichlorobenzene	ug/L	50	51.2	102	70-130	
1,2-Dichloroethane	ug/L	50	50.3	101	75-140	
1,2-Dichloropropane	ug/L	50	49.5	99	73-135	
1,3-Dichlorobenzene	ug/L	50	50.7	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.9	102	70-130	
Benzene	ug/L	50	49.4	99	70-130	
Bromodichloromethane	ug/L	50	50.7	101	70-130	
Bromoform	ug/L	50	51.1	102	68-129	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

LABORATORY CONTROL SAMPLE: 1971232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	38.8	78	18-159	
Carbon tetrachloride	ug/L	50	53.7	107	70-130	
Chlorobenzene	ug/L	50	53.4	107	70-130	
Chloroethane	ug/L	50	55.0	110	53-147	
Chloroform	ug/L	50	49.0	98	74-136	
Chloromethane	ug/L	50	49.7	99	29-115	
cis-1,2-Dichloroethene	ug/L	50	49.8	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.2	98	70-130	
Dibromochloromethane	ug/L	50	54.3	109	70-130	
Dichlorodifluoromethane	ug/L	50	53.7	107	10-130	
Ethylbenzene	ug/L	50	55.2	110	80-124	
Isopropylbenzene (Cumene)	ug/L	50	52.5	105	70-130	
m&p-Xylene	ug/L	100	115	115	70-130	
Methyl-tert-butyl ether	ug/L	50	48.2	96	54-137	
Methylene Chloride	ug/L	50	52.0	104	73-138	
o-Xylene	ug/L	50	56.2	112	70-130	
Styrene	ug/L	50	51.2	102	70-130	
Tetrachloroethene	ug/L	50	53.0	106	70-130	
Toluene	ug/L	50	54.0	108	80-126	
trans-1,2-Dichloroethene	ug/L	50	56.2	112	73-145	
trans-1,3-Dichloropropene	ug/L	50	45.3	91	70-130	
Trichloroethene	ug/L	50	53.8	108	70-130	
Trichlorofluoromethane	ug/L	50	54.7	109	76-147	
Vinyl chloride	ug/L	50	55.2	110	51-120	
Xylene (Total)	ug/L	150	171	114	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALIFIERS

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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 at or above the adjusted LOD.

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-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60615481 ALLOUEZ PHASE II ESA

Pace Project No.: 40198330

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40198330001	SP-109	EPA 8260	339381		
40198330002	SP-105	EPA 8260	339381		
40198330003	SP-111	EPA 8260	339381		
40198330004	SP-112	EPA 8260	339381		
40198330005	SP-114	EPA 8260	339381		
40198330006	DUP SP-112	EPA 8260	339381		
40198330007	MW-5	EPA 8260	339381		
40198330008	MW-4	EPA 8260	339381		
40198330009	MW-6	EPA 8260	339381		
40198330010	TRIP BLANK	EPA 8260	339432		

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Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: AFCOM

Project # 40918330

Page 37 of 38

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):


Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)					
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU								WPFU	SP5T	ZPLC	GN	
001																	9																	2.5 / 5 / 10
002																	2																	2.5 / 5 / 10
003																	3																	2.5 / 5 / 10
004																	2																	2.5 / 5 / 10
005																	2																	2.5 / 5 / 10
006																	3																	2.5 / 5 / 10
007																	3																	2.5 / 5 / 10
008																	3																	2.5 / 5 / 10
009																	3																	2.5 / 5 / 10
010																	2																	2.5 / 5 / 10
011																																		2.5 / 5 / 10
012																																		2.5 / 5 / 10
013																																		2.5 / 5 / 10
014																																		2.5 / 5 / 10
015																																		2.5 / 5 / 10
016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WIDRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3B 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: AECOM
Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Project #: _____

WO# : 40198330



Tracking #: N/A
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer Used SR - N/A **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 201 / Corr: _____

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Person examining contents:
 Date: 10/31/19
 Initials: JTB

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>No page #, No mail info 10/31/19 JTB</u>
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	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<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:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
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 <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
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.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>HEAVY Sediment in 001, 002, 003 10/31/19 JTB</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
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): <u>433</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____

Comments/ Resolution:
HEAVY Sediment in 001, 002, 003 10/31/19 JTB

Project Manager Review: OK **Date:** 10/31/19

February 04, 2020

Lanette Altenbach
AECOM, Inc.
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60615481 ALLOUEZ PH II
Pace Project No.: 40202694

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on January 30, 2020. 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,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40202694001	SP-109	Water	01/30/20 12:12	01/30/20 16:30
40202694002	SP-105	Water	01/30/20 12:34	01/30/20 16:30
40202694003	SP-111	Water	01/30/20 12:55	01/30/20 16:30
40202694004	SP-112	Water	01/30/20 13:12	01/30/20 16:30
40202694005	SP-114	Water	01/30/20 13:35	01/30/20 16:30
40202694006	MW-4	Water	01/30/20 13:58	01/30/20 16:30
40202694007	MW-5	Water	01/30/20 14:20	01/30/20 16:30
40202694008	MW-6	Water	01/30/20 15:02	01/30/20 16:30
40202694009	TRIP	Water	01/30/20 15:10	01/30/20 16:30

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SAMPLE ANALYTE COUNT

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40202694001	SP-109	EPA 8260	HNW	65	PASI-G
40202694002	SP-105	EPA 8260	HNW	65	PASI-G
40202694003	SP-111	EPA 8260	HNW	65	PASI-G
40202694004	SP-112	EPA 8260	HNW	65	PASI-G
40202694005	SP-114	EPA 8260	HNW	65	PASI-G
40202694006	MW-4	EPA 8260	HNW	65	PASI-G
40202694007	MW-5	EPA 8260	HNW	65	PASI-G
40202694008	MW-6	EPA 8260	HNW	65	PASI-G
40202694009	TRIP	EPA 8260	HNW	65	PASI-G

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SUMMARY OF DETECTION

Project: 60615481 ALLOUEZ PH II
Pace Project No.: 40202694

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40202694002	SP-105					
EPA 8260	Benzene	30.1	ug/L	1.0	02/03/20 14:59	
EPA 8260	cis-1,2-Dichloroethene	26.8	ug/L	1.0	02/03/20 14:59	
EPA 8260	trans-1,2-Dichloroethene	13.9	ug/L	3.6	02/03/20 14:59	
EPA 8260	Ethylbenzene	2.6	ug/L	1.0	02/03/20 14:59	
EPA 8260	Isopropylbenzene (Cumene)	15.2	ug/L	5.0	02/03/20 14:59	
EPA 8260	n-Propylbenzene	4.9J	ug/L	5.0	02/03/20 14:59	
EPA 8260	Tetrachloroethene	92.6	ug/L	1.1	02/03/20 14:59	
EPA 8260	Toluene	18.3	ug/L	5.0	02/03/20 14:59	
EPA 8260	Trichloroethene	10.5	ug/L	1.0	02/03/20 14:59	
EPA 8260	Xylene (Total)	11.5	ug/L	3.0	02/03/20 14:59	
EPA 8260	m&p-Xylene	0.97J	ug/L	2.0	02/03/20 14:59	
EPA 8260	o-Xylene	10.5	ug/L	1.0	02/03/20 14:59	
40202694003	SP-111					
EPA 8260	Tetrachloroethene	3.2	ug/L	1.1	02/04/20 07:43	
EPA 8260	Toluene	0.31J	ug/L	5.0	02/04/20 07:43	
40202694004	SP-112					
EPA 8260	Tetrachloroethene	39.9	ug/L	1.1	02/04/20 08:05	
40202694005	SP-114					
EPA 8260	Benzene	0.57J	ug/L	1.0	02/04/20 08:28	
EPA 8260	cis-1,2-Dichloroethene	1.4	ug/L	1.0	02/04/20 08:28	
EPA 8260	Tetrachloroethene	27.2	ug/L	1.1	02/04/20 08:28	
EPA 8260	Trichloroethene	3.0	ug/L	1.0	02/04/20 08:28	
40202694006	MW-4					
EPA 8260	cis-1,2-Dichloroethene	1.3	ug/L	1.0	02/04/20 08:50	
EPA 8260	Tetrachloroethene	65.7	ug/L	1.1	02/04/20 08:50	
EPA 8260	Trichloroethene	1.8	ug/L	1.0	02/04/20 08:50	
40202694007	MW-5					
EPA 8260	Benzene	1.3J	ug/L	5.0	02/04/20 09:13	
EPA 8260	cis-1,2-Dichloroethene	85.5	ug/L	5.0	02/04/20 09:13	
EPA 8260	trans-1,2-Dichloroethene	8.3J	ug/L	18.2	02/04/20 09:13	
EPA 8260	Ethylbenzene	74.1	ug/L	5.0	02/04/20 09:13	
EPA 8260	Isopropylbenzene (Cumene)	17.4J	ug/L	25.0	02/04/20 09:13	
EPA 8260	Naphthalene	95.5	ug/L	25.0	02/04/20 09:13	
EPA 8260	n-Propylbenzene	28.4	ug/L	25.0	02/04/20 09:13	
EPA 8260	Tetrachloroethene	1.9J	ug/L	5.4	02/04/20 09:13	
EPA 8260	Toluene	4.7J	ug/L	25.0	02/04/20 09:13	
EPA 8260	1,2,4-Trimethylbenzene	535	ug/L	14.0	02/04/20 09:13	
EPA 8260	1,3,5-Trimethylbenzene	34.0	ug/L	14.6	02/04/20 09:13	
EPA 8260	Xylene (Total)	228	ug/L	15.0	02/04/20 09:13	
EPA 8260	m&p-Xylene	196	ug/L	10.0	02/04/20 09:13	
EPA 8260	o-Xylene	31.9	ug/L	5.0	02/04/20 09:13	
40202694008	MW-6					
EPA 8260	Benzene	12.0	ug/L	4.0	02/04/20 09:35	
EPA 8260	cis-1,2-Dichloroethene	48.5	ug/L	4.0	02/04/20 09:35	

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SUMMARY OF DETECTION

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40202694008	MW-6					
EPA 8260	trans-1,2-Dichloroethene	90.0	ug/L	14.5	02/04/20 09:35	
EPA 8260	Ethylbenzene	30.5	ug/L	4.0	02/04/20 09:35	
EPA 8260	Isopropylbenzene (Cumene)	2.3J	ug/L	20.0	02/04/20 09:35	
EPA 8260	Naphthalene	6.8J	ug/L	20.0	02/04/20 09:35	
EPA 8260	n-Propylbenzene	5.1J	ug/L	20.0	02/04/20 09:35	
EPA 8260	Tetrachloroethene	113	ug/L	4.4	02/04/20 09:35	
EPA 8260	Toluene	21.0	ug/L	20.0	02/04/20 09:35	
EPA 8260	Trichloroethene	251	ug/L	4.0	02/04/20 09:35	
EPA 8260	1,2,4-Trimethylbenzene	34.1	ug/L	11.2	02/04/20 09:35	
EPA 8260	Xylene (Total)	56.4	ug/L	12.0	02/04/20 09:35	
EPA 8260	m&p-Xylene	51.3	ug/L	8.0	02/04/20 09:35	
EPA 8260	o-Xylene	5.1	ug/L	4.0	02/04/20 09:35	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: SP-109 **Lab ID: 40202694001** Collected: 01/30/20 12:12 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		02/03/20 14:36	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		02/03/20 14:36	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/03/20 14:36	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		02/03/20 14:36	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		02/03/20 14:36	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		02/03/20 14:36	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		02/03/20 14:36	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		02/03/20 14:36	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		02/03/20 14:36	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		02/03/20 14:36	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		02/03/20 14:36	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		02/03/20 14:36	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		02/03/20 14:36	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		02/03/20 14:36	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		02/03/20 14:36	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		02/03/20 14:36	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		02/03/20 14:36	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		02/03/20 14:36	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		02/03/20 14:36	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		02/03/20 14:36	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		02/03/20 14:36	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		02/03/20 14:36	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		02/03/20 14:36	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		02/03/20 14:36	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		02/03/20 14:36	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/03/20 14:36	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		02/03/20 14:36	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		02/03/20 14:36	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		02/03/20 14:36	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		02/03/20 14:36	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		02/03/20 14:36	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		02/03/20 14:36	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		02/03/20 14:36	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		02/03/20 14:36	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		02/03/20 14:36	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		02/03/20 14:36	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		02/03/20 14:36	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		02/03/20 14:36	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		02/03/20 14:36	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		02/03/20 14:36	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		02/03/20 14:36	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		02/03/20 14:36	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		02/03/20 14:36	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		02/03/20 14:36	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		02/03/20 14:36	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		02/03/20 14:36	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II
Pace Project No.: 40202694

Sample: SP-109 **Lab ID: 40202694001** Collected: 01/30/20 12:12 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		02/03/20 14:36	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		02/03/20 14:36	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		02/03/20 14:36	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		02/03/20 14:36	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/03/20 14:36	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		02/03/20 14:36	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		02/03/20 14:36	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		02/03/20 14:36	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		02/03/20 14:36	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		02/03/20 14:36	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		02/03/20 14:36	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		02/03/20 14:36	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/03/20 14:36	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		02/03/20 14:36	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		02/03/20 14:36	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		02/03/20 14:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/03/20 14:36	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		02/03/20 14:36	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		02/03/20 14:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: SP-105 **Lab ID: 40202694002** Collected: 01/30/20 12:34 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	30.1	ug/L	1.0	0.25	1		02/03/20 14:59	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		02/03/20 14:59	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/03/20 14:59	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		02/03/20 14:59	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		02/03/20 14:59	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		02/03/20 14:59	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		02/03/20 14:59	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		02/03/20 14:59	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		02/03/20 14:59	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		02/03/20 14:59	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		02/03/20 14:59	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		02/03/20 14:59	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		02/03/20 14:59	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		02/03/20 14:59	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		02/03/20 14:59	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		02/03/20 14:59	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		02/03/20 14:59	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		02/03/20 14:59	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		02/03/20 14:59	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		02/03/20 14:59	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		02/03/20 14:59	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		02/03/20 14:59	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		02/03/20 14:59	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		02/03/20 14:59	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		02/03/20 14:59	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/03/20 14:59	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		02/03/20 14:59	75-35-4	
cis-1,2-Dichloroethene	26.8	ug/L	1.0	0.27	1		02/03/20 14:59	156-59-2	
trans-1,2-Dichloroethene	13.9	ug/L	3.6	1.1	1		02/03/20 14:59	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		02/03/20 14:59	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		02/03/20 14:59	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		02/03/20 14:59	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		02/03/20 14:59	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		02/03/20 14:59	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		02/03/20 14:59	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		02/03/20 14:59	108-20-3	
Ethylbenzene	2.6	ug/L	1.0	0.22	1		02/03/20 14:59	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		02/03/20 14:59	87-68-3	
Isopropylbenzene (Cumene)	15.2	ug/L	5.0	0.39	1		02/03/20 14:59	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		02/03/20 14:59	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		02/03/20 14:59	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		02/03/20 14:59	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		02/03/20 14:59	91-20-3	
n-Propylbenzene	4.9J	ug/L	5.0	0.81	1		02/03/20 14:59	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		02/03/20 14:59	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		02/03/20 14:59	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: SP-105 **Lab ID: 40202694002** Collected: 01/30/20 12:34 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		02/03/20 14:59	79-34-5	
Tetrachloroethene	92.6	ug/L	1.1	0.33	1		02/03/20 14:59	127-18-4	
Toluene	18.3	ug/L	5.0	0.17	1		02/03/20 14:59	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		02/03/20 14:59	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/03/20 14:59	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		02/03/20 14:59	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		02/03/20 14:59	79-00-5	
Trichloroethene	10.5	ug/L	1.0	0.26	1		02/03/20 14:59	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		02/03/20 14:59	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		02/03/20 14:59	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		02/03/20 14:59	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		02/03/20 14:59	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/03/20 14:59	75-01-4	
Xylene (Total)	11.5	ug/L	3.0	1.5	1		02/03/20 14:59	1330-20-7	
m&p-Xylene	0.97J	ug/L	2.0	0.47	1		02/03/20 14:59	179601-23-1	
o-Xylene	10.5	ug/L	1.0	0.26	1		02/03/20 14:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/03/20 14:59	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		02/03/20 14:59	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		02/03/20 14:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: SP-111 **Lab ID: 40202694003** Collected: 01/30/20 12:55 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		02/04/20 07:43	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		02/04/20 07:43	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/04/20 07:43	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		02/04/20 07:43	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		02/04/20 07:43	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		02/04/20 07:43	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		02/04/20 07:43	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		02/04/20 07:43	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		02/04/20 07:43	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		02/04/20 07:43	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		02/04/20 07:43	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		02/04/20 07:43	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		02/04/20 07:43	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		02/04/20 07:43	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		02/04/20 07:43	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		02/04/20 07:43	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		02/04/20 07:43	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		02/04/20 07:43	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		02/04/20 07:43	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		02/04/20 07:43	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		02/04/20 07:43	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		02/04/20 07:43	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		02/04/20 07:43	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		02/04/20 07:43	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		02/04/20 07:43	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/04/20 07:43	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		02/04/20 07:43	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		02/04/20 07:43	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		02/04/20 07:43	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		02/04/20 07:43	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		02/04/20 07:43	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		02/04/20 07:43	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		02/04/20 07:43	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		02/04/20 07:43	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		02/04/20 07:43	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		02/04/20 07:43	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		02/04/20 07:43	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		02/04/20 07:43	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		02/04/20 07:43	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		02/04/20 07:43	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		02/04/20 07:43	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		02/04/20 07:43	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		02/04/20 07:43	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		02/04/20 07:43	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		02/04/20 07:43	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		02/04/20 07:43	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: SP-111 **Lab ID: 40202694003** Collected: 01/30/20 12:55 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		02/04/20 07:43	79-34-5	
Tetrachloroethene	3.2	ug/L	1.1	0.33	1		02/04/20 07:43	127-18-4	
Toluene	0.31J	ug/L	5.0	0.17	1		02/04/20 07:43	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		02/04/20 07:43	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/04/20 07:43	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		02/04/20 07:43	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		02/04/20 07:43	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		02/04/20 07:43	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		02/04/20 07:43	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		02/04/20 07:43	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		02/04/20 07:43	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		02/04/20 07:43	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/04/20 07:43	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		02/04/20 07:43	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		02/04/20 07:43	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		02/04/20 07:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/04/20 07:43	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		02/04/20 07:43	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		02/04/20 07:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: SP-112 **Lab ID: 40202694004** Collected: 01/30/20 13:12 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		02/04/20 08:05	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		02/04/20 08:05	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/04/20 08:05	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		02/04/20 08:05	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		02/04/20 08:05	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		02/04/20 08:05	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		02/04/20 08:05	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		02/04/20 08:05	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		02/04/20 08:05	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		02/04/20 08:05	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		02/04/20 08:05	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		02/04/20 08:05	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		02/04/20 08:05	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		02/04/20 08:05	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		02/04/20 08:05	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		02/04/20 08:05	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		02/04/20 08:05	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		02/04/20 08:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		02/04/20 08:05	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		02/04/20 08:05	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		02/04/20 08:05	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		02/04/20 08:05	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		02/04/20 08:05	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		02/04/20 08:05	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		02/04/20 08:05	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/04/20 08:05	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		02/04/20 08:05	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		02/04/20 08:05	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		02/04/20 08:05	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		02/04/20 08:05	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		02/04/20 08:05	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		02/04/20 08:05	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		02/04/20 08:05	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		02/04/20 08:05	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		02/04/20 08:05	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		02/04/20 08:05	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		02/04/20 08:05	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		02/04/20 08:05	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		02/04/20 08:05	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		02/04/20 08:05	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		02/04/20 08:05	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		02/04/20 08:05	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		02/04/20 08:05	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		02/04/20 08:05	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		02/04/20 08:05	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		02/04/20 08:05	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: SP-112 **Lab ID: 40202694004** Collected: 01/30/20 13:12 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		02/04/20 08:05	79-34-5	
Tetrachloroethene	39.9	ug/L	1.1	0.33	1		02/04/20 08:05	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		02/04/20 08:05	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		02/04/20 08:05	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/04/20 08:05	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		02/04/20 08:05	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		02/04/20 08:05	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		02/04/20 08:05	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		02/04/20 08:05	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		02/04/20 08:05	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		02/04/20 08:05	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		02/04/20 08:05	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/04/20 08:05	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		02/04/20 08:05	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		02/04/20 08:05	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		02/04/20 08:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/04/20 08:05	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		02/04/20 08:05	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		02/04/20 08:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: SP-114 **Lab ID: 40202694005** Collected: 01/30/20 13:35 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	0.57J	ug/L	1.0	0.25	1		02/04/20 08:28	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		02/04/20 08:28	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/04/20 08:28	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		02/04/20 08:28	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		02/04/20 08:28	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		02/04/20 08:28	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		02/04/20 08:28	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		02/04/20 08:28	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		02/04/20 08:28	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		02/04/20 08:28	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		02/04/20 08:28	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		02/04/20 08:28	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		02/04/20 08:28	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		02/04/20 08:28	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		02/04/20 08:28	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		02/04/20 08:28	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		02/04/20 08:28	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		02/04/20 08:28	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		02/04/20 08:28	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		02/04/20 08:28	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		02/04/20 08:28	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		02/04/20 08:28	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		02/04/20 08:28	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		02/04/20 08:28	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		02/04/20 08:28	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/04/20 08:28	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		02/04/20 08:28	75-35-4	
cis-1,2-Dichloroethene	1.4	ug/L	1.0	0.27	1		02/04/20 08:28	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		02/04/20 08:28	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		02/04/20 08:28	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		02/04/20 08:28	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		02/04/20 08:28	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		02/04/20 08:28	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		02/04/20 08:28	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		02/04/20 08:28	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		02/04/20 08:28	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		02/04/20 08:28	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		02/04/20 08:28	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		02/04/20 08:28	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		02/04/20 08:28	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		02/04/20 08:28	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		02/04/20 08:28	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		02/04/20 08:28	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		02/04/20 08:28	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		02/04/20 08:28	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		02/04/20 08:28	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II
Pace Project No.: 40202694

Sample: SP-114 **Lab ID: 40202694005** Collected: 01/30/20 13:35 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		02/04/20 08:28	79-34-5	
Tetrachloroethene	27.2	ug/L	1.1	0.33	1		02/04/20 08:28	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		02/04/20 08:28	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		02/04/20 08:28	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/04/20 08:28	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		02/04/20 08:28	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		02/04/20 08:28	79-00-5	
Trichloroethene	3.0	ug/L	1.0	0.26	1		02/04/20 08:28	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		02/04/20 08:28	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		02/04/20 08:28	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		02/04/20 08:28	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		02/04/20 08:28	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/04/20 08:28	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		02/04/20 08:28	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		02/04/20 08:28	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		02/04/20 08:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/04/20 08:28	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		02/04/20 08:28	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		02/04/20 08:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: MW-4 **Lab ID: 40202694006** Collected: 01/30/20 13:58 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		02/04/20 08:50	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		02/04/20 08:50	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/04/20 08:50	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		02/04/20 08:50	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		02/04/20 08:50	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		02/04/20 08:50	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		02/04/20 08:50	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		02/04/20 08:50	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		02/04/20 08:50	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		02/04/20 08:50	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		02/04/20 08:50	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		02/04/20 08:50	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		02/04/20 08:50	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		02/04/20 08:50	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		02/04/20 08:50	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		02/04/20 08:50	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		02/04/20 08:50	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		02/04/20 08:50	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		02/04/20 08:50	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		02/04/20 08:50	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		02/04/20 08:50	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		02/04/20 08:50	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		02/04/20 08:50	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		02/04/20 08:50	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		02/04/20 08:50	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/04/20 08:50	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		02/04/20 08:50	75-35-4	
cis-1,2-Dichloroethene	1.3	ug/L	1.0	0.27	1		02/04/20 08:50	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		02/04/20 08:50	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		02/04/20 08:50	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		02/04/20 08:50	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		02/04/20 08:50	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		02/04/20 08:50	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		02/04/20 08:50	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		02/04/20 08:50	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		02/04/20 08:50	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		02/04/20 08:50	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		02/04/20 08:50	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		02/04/20 08:50	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		02/04/20 08:50	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		02/04/20 08:50	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		02/04/20 08:50	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		02/04/20 08:50	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		02/04/20 08:50	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		02/04/20 08:50	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		02/04/20 08:50	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: MW-4 **Lab ID: 40202694006** Collected: 01/30/20 13:58 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		02/04/20 08:50	79-34-5	
Tetrachloroethene	65.7	ug/L	1.1	0.33	1		02/04/20 08:50	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		02/04/20 08:50	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		02/04/20 08:50	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/04/20 08:50	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		02/04/20 08:50	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		02/04/20 08:50	79-00-5	
Trichloroethene	1.8	ug/L	1.0	0.26	1		02/04/20 08:50	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		02/04/20 08:50	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		02/04/20 08:50	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		02/04/20 08:50	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		02/04/20 08:50	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/04/20 08:50	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		02/04/20 08:50	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		02/04/20 08:50	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		02/04/20 08:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/04/20 08:50	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		02/04/20 08:50	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		02/04/20 08:50	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: MW-5 **Lab ID: 40202694007** Collected: 01/30/20 14:20 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	1.3J	ug/L	5.0	1.2	5		02/04/20 09:13	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		02/04/20 09:13	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		02/04/20 09:13	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		02/04/20 09:13	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		02/04/20 09:13	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		02/04/20 09:13	74-83-9	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		02/04/20 09:13	104-51-8	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		02/04/20 09:13	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		02/04/20 09:13	98-06-6	
Carbon tetrachloride	<0.83	ug/L	5.0	0.83	5		02/04/20 09:13	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		02/04/20 09:13	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		02/04/20 09:13	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		02/04/20 09:13	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		02/04/20 09:13	74-87-3	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		02/04/20 09:13	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		02/04/20 09:13	106-43-4	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		02/04/20 09:13	96-12-8	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		02/04/20 09:13	124-48-1	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		02/04/20 09:13	106-93-4	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		02/04/20 09:13	74-95-3	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		02/04/20 09:13	95-50-1	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		02/04/20 09:13	541-73-1	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		02/04/20 09:13	106-46-7	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		02/04/20 09:13	75-71-8	
1,1-Dichloroethane	<1.4	ug/L	5.0	1.4	5		02/04/20 09:13	75-34-3	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		02/04/20 09:13	107-06-2	
1,1-Dichloroethene	<1.2	ug/L	5.0	1.2	5		02/04/20 09:13	75-35-4	
cis-1,2-Dichloroethene	85.5	ug/L	5.0	1.4	5		02/04/20 09:13	156-59-2	
trans-1,2-Dichloroethene	8.3J	ug/L	18.2	5.5	5		02/04/20 09:13	156-60-5	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		02/04/20 09:13	78-87-5	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		02/04/20 09:13	142-28-9	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		02/04/20 09:13	594-20-7	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		02/04/20 09:13	563-58-6	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		02/04/20 09:13	10061-01-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		02/04/20 09:13	10061-02-6	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		02/04/20 09:13	108-20-3	
Ethylbenzene	74.1	ug/L	5.0	1.1	5		02/04/20 09:13	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	25.0	5.9	5		02/04/20 09:13	87-68-3	
Isopropylbenzene (Cumene)	17.4J	ug/L	25.0	2.0	5		02/04/20 09:13	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		02/04/20 09:13	99-87-6	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		02/04/20 09:13	75-09-2	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		02/04/20 09:13	1634-04-4	
Naphthalene	95.5	ug/L	25.0	5.9	5		02/04/20 09:13	91-20-3	
n-Propylbenzene	28.4	ug/L	25.0	4.1	5		02/04/20 09:13	103-65-1	
Styrene	<2.3	ug/L	7.8	2.3	5		02/04/20 09:13	100-42-5	
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		02/04/20 09:13	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II
Pace Project No.: 40202694

Sample: MW-5 **Lab ID: 40202694007** Collected: 01/30/20 14:20 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		02/04/20 09:13	79-34-5	
Tetrachloroethene	1.9J	ug/L	5.4	1.6	5		02/04/20 09:13	127-18-4	
Toluene	4.7J	ug/L	25.0	0.86	5		02/04/20 09:13	108-88-3	
1,2,3-Trichlorobenzene	<3.1	ug/L	25.0	3.1	5		02/04/20 09:13	87-61-6	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		02/04/20 09:13	120-82-1	
1,1,1-Trichloroethane	<1.2	ug/L	5.0	1.2	5		02/04/20 09:13	71-55-6	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		02/04/20 09:13	79-00-5	
Trichloroethene	<1.3	ug/L	5.0	1.3	5		02/04/20 09:13	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		02/04/20 09:13	75-69-4	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		02/04/20 09:13	96-18-4	
1,2,4-Trimethylbenzene	535	ug/L	14.0	4.2	5		02/04/20 09:13	95-63-6	
1,3,5-Trimethylbenzene	34.0	ug/L	14.6	4.4	5		02/04/20 09:13	108-67-8	
Vinyl chloride	<0.87	ug/L	5.0	0.87	5		02/04/20 09:13	75-01-4	
Xylene (Total)	228	ug/L	15.0	7.5	5		02/04/20 09:13	1330-20-7	
m&p-Xylene	196	ug/L	10.0	2.3	5		02/04/20 09:13	179601-23-1	
o-Xylene	31.9	ug/L	5.0	1.3	5		02/04/20 09:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		5		02/04/20 09:13	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		5		02/04/20 09:13	1868-53-7	
Toluene-d8 (S)	104	%	70-130		5		02/04/20 09:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: MW-6 **Lab ID: 40202694008** Collected: 01/30/20 15:02 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	12.0	ug/L	4.0	0.99	4		02/04/20 09:35	71-43-2	
Bromobenzene	<0.96	ug/L	4.0	0.96	4		02/04/20 09:35	108-86-1	
Bromochloromethane	<1.4	ug/L	20.0	1.4	4		02/04/20 09:35	74-97-5	
Bromodichloromethane	<1.5	ug/L	4.8	1.5	4		02/04/20 09:35	75-27-4	
Bromoform	<15.9	ug/L	53.0	15.9	4		02/04/20 09:35	75-25-2	
Bromomethane	<3.9	ug/L	20.0	3.9	4		02/04/20 09:35	74-83-9	
n-Butylbenzene	<2.8	ug/L	9.4	2.8	4		02/04/20 09:35	104-51-8	
sec-Butylbenzene	<3.4	ug/L	20.0	3.4	4		02/04/20 09:35	135-98-8	
tert-Butylbenzene	<1.2	ug/L	4.1	1.2	4		02/04/20 09:35	98-06-6	
Carbon tetrachloride	<0.66	ug/L	4.0	0.66	4		02/04/20 09:35	56-23-5	
Chlorobenzene	<2.8	ug/L	9.5	2.8	4		02/04/20 09:35	108-90-7	
Chloroethane	<5.4	ug/L	20.0	5.4	4		02/04/20 09:35	75-00-3	
Chloroform	<5.1	ug/L	20.0	5.1	4		02/04/20 09:35	67-66-3	
Chloromethane	<8.8	ug/L	29.2	8.8	4		02/04/20 09:35	74-87-3	
2-Chlorotoluene	<3.7	ug/L	20.0	3.7	4		02/04/20 09:35	95-49-8	
4-Chlorotoluene	<3.0	ug/L	10.1	3.0	4		02/04/20 09:35	106-43-4	
1,2-Dibromo-3-chloropropane	<7.1	ug/L	23.5	7.1	4		02/04/20 09:35	96-12-8	
Dibromochloromethane	<10.4	ug/L	34.7	10.4	4		02/04/20 09:35	124-48-1	
1,2-Dibromoethane (EDB)	<3.3	ug/L	11.1	3.3	4		02/04/20 09:35	106-93-4	
Dibromomethane	<3.7	ug/L	12.5	3.7	4		02/04/20 09:35	74-95-3	
1,2-Dichlorobenzene	<2.8	ug/L	9.4	2.8	4		02/04/20 09:35	95-50-1	
1,3-Dichlorobenzene	<2.5	ug/L	8.4	2.5	4		02/04/20 09:35	541-73-1	
1,4-Dichlorobenzene	<3.8	ug/L	12.6	3.8	4		02/04/20 09:35	106-46-7	
Dichlorodifluoromethane	<2.0	ug/L	20.0	2.0	4		02/04/20 09:35	75-71-8	
1,1-Dichloroethane	<1.1	ug/L	4.0	1.1	4		02/04/20 09:35	75-34-3	
1,2-Dichloroethane	<1.1	ug/L	4.0	1.1	4		02/04/20 09:35	107-06-2	
1,1-Dichloroethene	<0.98	ug/L	4.0	0.98	4		02/04/20 09:35	75-35-4	
cis-1,2-Dichloroethene	48.5	ug/L	4.0	1.1	4		02/04/20 09:35	156-59-2	
trans-1,2-Dichloroethene	90.0	ug/L	14.5	4.4	4		02/04/20 09:35	156-60-5	
1,2-Dichloropropane	<1.1	ug/L	4.0	1.1	4		02/04/20 09:35	78-87-5	
1,3-Dichloropropane	<3.3	ug/L	11.0	3.3	4		02/04/20 09:35	142-28-9	
2,2-Dichloropropane	<9.1	ug/L	30.2	9.1	4		02/04/20 09:35	594-20-7	
1,1-Dichloropropene	<2.2	ug/L	7.2	2.2	4		02/04/20 09:35	563-58-6	
cis-1,3-Dichloropropene	<14.5	ug/L	48.4	14.5	4		02/04/20 09:35	10061-01-5	
trans-1,3-Dichloropropene	<17.5	ug/L	58.3	17.5	4		02/04/20 09:35	10061-02-6	
Diisopropyl ether	<7.6	ug/L	25.2	7.6	4		02/04/20 09:35	108-20-3	
Ethylbenzene	30.5	ug/L	4.0	0.87	4		02/04/20 09:35	100-41-4	
Hexachloro-1,3-butadiene	<4.7	ug/L	20.0	4.7	4		02/04/20 09:35	87-68-3	
Isopropylbenzene (Cumene)	2.3J	ug/L	20.0	1.6	4		02/04/20 09:35	98-82-8	
p-Isopropyltoluene	<3.2	ug/L	10.7	3.2	4		02/04/20 09:35	99-87-6	
Methylene Chloride	<2.3	ug/L	20.0	2.3	4		02/04/20 09:35	75-09-2	
Methyl-tert-butyl ether	<5.0	ug/L	16.6	5.0	4		02/04/20 09:35	1634-04-4	
Naphthalene	6.8J	ug/L	20.0	4.7	4		02/04/20 09:35	91-20-3	
n-Propylbenzene	5.1J	ug/L	20.0	3.2	4		02/04/20 09:35	103-65-1	
Styrene	<1.9	ug/L	6.2	1.9	4		02/04/20 09:35	100-42-5	
1,1,1,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		02/04/20 09:35	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: MW-6 **Lab ID: 40202694008** Collected: 01/30/20 15:02 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		02/04/20 09:35	79-34-5	
Tetrachloroethene	113	ug/L	4.4	1.3	4		02/04/20 09:35	127-18-4	
Toluene	21.0	ug/L	20.0	0.69	4		02/04/20 09:35	108-88-3	
1,2,3-Trichlorobenzene	<2.5	ug/L	20.0	2.5	4		02/04/20 09:35	87-61-6	
1,2,4-Trichlorobenzene	<3.8	ug/L	20.0	3.8	4		02/04/20 09:35	120-82-1	
1,1,1-Trichloroethane	<0.98	ug/L	4.0	0.98	4		02/04/20 09:35	71-55-6	
1,1,2-Trichloroethane	<2.2	ug/L	20.0	2.2	4		02/04/20 09:35	79-00-5	
Trichloroethene	251	ug/L	4.0	1.0	4		02/04/20 09:35	79-01-6	
Trichlorofluoromethane	<0.86	ug/L	4.0	0.86	4		02/04/20 09:35	75-69-4	
1,2,3-Trichloropropane	<2.4	ug/L	20.0	2.4	4		02/04/20 09:35	96-18-4	
1,2,4-Trimethylbenzene	34.1	ug/L	11.2	3.4	4		02/04/20 09:35	95-63-6	
1,3,5-Trimethylbenzene	<3.5	ug/L	11.6	3.5	4		02/04/20 09:35	108-67-8	
Vinyl chloride	<0.70	ug/L	4.0	0.70	4		02/04/20 09:35	75-01-4	
Xylene (Total)	56.4	ug/L	12.0	6.0	4		02/04/20 09:35	1330-20-7	
m&p-Xylene	51.3	ug/L	8.0	1.9	4		02/04/20 09:35	179601-23-1	
o-Xylene	5.1	ug/L	4.0	1.0	4		02/04/20 09:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		4		02/04/20 09:35	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		4		02/04/20 09:35	1868-53-7	
Toluene-d8 (S)	102	%	70-130		4		02/04/20 09:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: TRIP **Lab ID:** 40202694009 Collected: 01/30/20 15:10 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		02/03/20 10:46	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		02/03/20 10:46	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/03/20 10:46	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		02/03/20 10:46	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		02/03/20 10:46	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		02/03/20 10:46	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		02/03/20 10:46	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		02/03/20 10:46	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		02/03/20 10:46	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		02/03/20 10:46	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		02/03/20 10:46	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		02/03/20 10:46	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		02/03/20 10:46	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		02/03/20 10:46	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		02/03/20 10:46	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		02/03/20 10:46	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		02/03/20 10:46	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		02/03/20 10:46	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		02/03/20 10:46	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		02/03/20 10:46	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		02/03/20 10:46	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		02/03/20 10:46	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		02/03/20 10:46	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		02/03/20 10:46	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		02/03/20 10:46	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/03/20 10:46	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		02/03/20 10:46	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		02/03/20 10:46	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		02/03/20 10:46	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		02/03/20 10:46	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		02/03/20 10:46	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		02/03/20 10:46	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		02/03/20 10:46	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		02/03/20 10:46	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		02/03/20 10:46	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		02/03/20 10:46	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		02/03/20 10:46	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		02/03/20 10:46	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		02/03/20 10:46	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		02/03/20 10:46	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		02/03/20 10:46	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		02/03/20 10:46	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		02/03/20 10:46	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		02/03/20 10:46	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		02/03/20 10:46	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		02/03/20 10:46	630-20-6	

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ANALYTICAL RESULTS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Sample: TRIP **Lab ID: 40202694009** Collected: 01/30/20 15:10 Received: 01/30/20 16:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		02/03/20 10:46	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		02/03/20 10:46	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		02/03/20 10:46	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		02/03/20 10:46	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/03/20 10:46	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		02/03/20 10:46	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		02/03/20 10:46	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		02/03/20 10:46	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		02/03/20 10:46	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		02/03/20 10:46	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		02/03/20 10:46	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		02/03/20 10:46	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/03/20 10:46	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		02/03/20 10:46	1330-20-7	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		02/03/20 10:46	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		02/03/20 10:46	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/03/20 10:46	460-00-4	HS
Dibromofluoromethane (S)	106	%	70-130		1		02/03/20 10:46	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		02/03/20 10:46	2037-26-5	

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PH II
Pace Project No.: 40202694

QC Batch: 346723 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40202694001, 40202694002, 40202694003, 40202694004, 40202694005, 40202694006, 40202694007, 40202694008, 40202694009

METHOD BLANK: 2010687 Matrix: Water
Associated Lab Samples: 40202694001, 40202694002, 40202694003, 40202694004, 40202694005, 40202694006, 40202694007, 40202694008, 40202694009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	02/03/20 08:13	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	02/03/20 08:13	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	02/03/20 08:13	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	02/03/20 08:13	
1,1-Dichloroethane	ug/L	<0.27	1.0	02/03/20 08:13	
1,1-Dichloroethene	ug/L	<0.24	1.0	02/03/20 08:13	
1,1-Dichloropropene	ug/L	<0.54	1.8	02/03/20 08:13	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	02/03/20 08:13	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	02/03/20 08:13	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	02/03/20 08:13	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	02/03/20 08:13	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	02/03/20 08:13	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	02/03/20 08:13	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	02/03/20 08:13	
1,2-Dichloroethane	ug/L	<0.28	1.0	02/03/20 08:13	
1,2-Dichloropropane	ug/L	<0.28	1.0	02/03/20 08:13	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	02/03/20 08:13	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	02/03/20 08:13	
1,3-Dichloropropane	ug/L	<0.83	2.8	02/03/20 08:13	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	02/03/20 08:13	
2,2-Dichloropropane	ug/L	<2.3	7.6	02/03/20 08:13	
2-Chlorotoluene	ug/L	<0.93	5.0	02/03/20 08:13	
4-Chlorotoluene	ug/L	<0.76	2.5	02/03/20 08:13	
Benzene	ug/L	<0.25	1.0	02/03/20 08:13	
Bromobenzene	ug/L	<0.24	1.0	02/03/20 08:13	
Bromochloromethane	ug/L	<0.36	5.0	02/03/20 08:13	
Bromodichloromethane	ug/L	<0.36	1.2	02/03/20 08:13	
Bromoform	ug/L	<4.0	13.2	02/03/20 08:13	
Bromomethane	ug/L	<0.97	5.0	02/03/20 08:13	
Carbon tetrachloride	ug/L	<0.17	1.0	02/03/20 08:13	
Chlorobenzene	ug/L	<0.71	2.4	02/03/20 08:13	
Chloroethane	ug/L	<1.3	5.0	02/03/20 08:13	
Chloroform	ug/L	<1.3	5.0	02/03/20 08:13	
Chloromethane	ug/L	<2.2	7.3	02/03/20 08:13	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	02/03/20 08:13	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	02/03/20 08:13	
Dibromochloromethane	ug/L	<2.6	8.7	02/03/20 08:13	
Dibromomethane	ug/L	<0.94	3.1	02/03/20 08:13	
Dichlorodifluoromethane	ug/L	<0.50	5.0	02/03/20 08:13	
Diisopropyl ether	ug/L	<1.9	6.3	02/03/20 08:13	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

METHOD BLANK: 2010687

Matrix: Water

Associated Lab Samples: 40202694001, 40202694002, 40202694003, 40202694004, 40202694005, 40202694006, 40202694007, 40202694008, 40202694009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.22	1.0	02/03/20 08:13	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	02/03/20 08:13	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	02/03/20 08:13	
m&p-Xylene	ug/L	<0.47	2.0	02/03/20 08:13	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	02/03/20 08:13	
Methylene Chloride	ug/L	<0.58	5.0	02/03/20 08:13	
n-Butylbenzene	ug/L	<0.71	2.4	02/03/20 08:13	
n-Propylbenzene	ug/L	<0.81	5.0	02/03/20 08:13	
Naphthalene	ug/L	<1.2	5.0	02/03/20 08:13	
o-Xylene	ug/L	<0.26	1.0	02/03/20 08:13	
p-Isopropyltoluene	ug/L	<0.80	2.7	02/03/20 08:13	
sec-Butylbenzene	ug/L	<0.85	5.0	02/03/20 08:13	
Styrene	ug/L	<0.47	1.6	02/03/20 08:13	
tert-Butylbenzene	ug/L	<0.30	1.0	02/03/20 08:13	
Tetrachloroethene	ug/L	<0.33	1.1	02/03/20 08:13	
Toluene	ug/L	<0.17	5.0	02/03/20 08:13	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	02/03/20 08:13	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	02/03/20 08:13	
Trichloroethene	ug/L	<0.26	1.0	02/03/20 08:13	
Trichlorofluoromethane	ug/L	<0.21	1.0	02/03/20 08:13	
Vinyl chloride	ug/L	<0.17	1.0	02/03/20 08:13	
Xylene (Total)	ug/L	<1.5	3.0	02/03/20 08:13	
4-Bromofluorobenzene (S)	%	96	70-130	02/03/20 08:13	
Dibromofluoromethane (S)	%	104	70-130	02/03/20 08:13	
Toluene-d8 (S)	%	100	70-130	02/03/20 08:13	

LABORATORY CONTROL SAMPLE: 2010688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.3	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.8	106	70-130	
1,1,2-Trichloroethane	ug/L	50	51.9	104	70-130	
1,1-Dichloroethane	ug/L	50	54.5	109	73-150	
1,1-Dichloroethene	ug/L	50	51.3	103	73-138	
1,2,4-Trichlorobenzene	ug/L	50	49.3	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.0	88	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	48.9	98	70-130	
1,2-Dichlorobenzene	ug/L	50	51.0	102	70-130	
1,2-Dichloroethane	ug/L	50	55.0	110	75-140	
1,2-Dichloropropane	ug/L	50	53.6	107	73-135	
1,3-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,4-Dichlorobenzene	ug/L	50	51.1	102	70-130	
Benzene	ug/L	50	53.8	108	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

LABORATORY CONTROL SAMPLE: 2010688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	50	50.9	102	70-130	
Bromoform	ug/L	50	44.4	89	68-129	
Bromomethane	ug/L	50	43.9	88	18-159	
Carbon tetrachloride	ug/L	50	49.6	99	70-130	
Chlorobenzene	ug/L	50	52.3	105	70-130	
Chloroethane	ug/L	50	47.8	96	53-147	
Chloroform	ug/L	50	52.1	104	74-136	
Chloromethane	ug/L	50	38.1	76	29-115	
cis-1,2-Dichloroethene	ug/L	50	51.5	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	45.8	92	70-130	
Dibromochloromethane	ug/L	50	48.7	97	70-130	
Dichlorodifluoromethane	ug/L	50	43.6	87	10-130	
Ethylbenzene	ug/L	50	51.6	103	80-124	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	46.3	93	54-137	
Methylene Chloride	ug/L	50	50.7	101	73-138	
o-Xylene	ug/L	50	50.1	100	70-130	
Styrene	ug/L	50	51.9	104	70-130	
Tetrachloroethene	ug/L	50	50.6	101	70-130	
Toluene	ug/L	50	50.8	102	80-126	
trans-1,2-Dichloroethene	ug/L	50	50.6	101	73-145	
trans-1,3-Dichloropropene	ug/L	50	40.6	81	70-130	
Trichloroethene	ug/L	50	54.1	108	70-130	
Trichlorofluoromethane	ug/L	50	57.5	115	76-147	
Vinyl chloride	ug/L	50	44.4	89	51-120	
Xylene (Total)	ug/L	150	153	102	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2011691 2011692

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40202688002 Result	Spike Conc.	Spike Conc.	Result							Result
1,1,1-Trichloroethane	ug/L	<0.24	50	50	49.3	49.9	99	100	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	52.7	52.2	105	104	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.3	51.7	103	103	70-137	1	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	54.5	54.6	109	109	73-153	0	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	51.4	50.9	103	102	73-138	1	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	51.6	50.4	103	101	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	42.9	44.2	86	88	58-129	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.8	48.6	98	97	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.3	51.1	103	102	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2011691		2011692							
Parameter	Units	40202688002	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
1,2-Dichloroethane	ug/L	<0.28	50	50	54.5	52.8	109	106	75-140	3	20
1,2-Dichloropropane	ug/L	<0.28	50	50	54.1	54.3	108	109	71-138	0	20
1,3-Dichlorobenzene	ug/L	<0.63	50	50	51.5	51.5	103	103	70-130	0	20
1,4-Dichlorobenzene	ug/L	<0.94	50	50	51.8	51.5	104	103	70-130	1	20
Benzene	ug/L	<0.25	50	50	53.2	53.6	106	107	70-130	1	20
Bromodichloromethane	ug/L	<0.36	50	50	51.5	51.7	103	103	70-130	0	20
Bromoform	ug/L	<4.0	50	50	44.1	44.3	88	89	68-129	0	20
Bromomethane	ug/L	<0.97	50	50	49.5	51.7	99	103	15-170	4	20
Carbon tetrachloride	ug/L	<0.17	50	50	50.6	51.1	101	102	70-130	1	20
Chlorobenzene	ug/L	<0.71	50	50	52.0	52.1	104	104	70-130	0	20
Chloroethane	ug/L	<1.3	50	50	47.1	46.5	94	93	51-148	1	20
Chloroform	ug/L	<1.3	50	50	51.8	52.0	104	104	74-136	0	20
Chloromethane	ug/L	<2.2	50	50	36.9	37.1	74	74	23-115	0	20
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.5	51.4	103	103	70-131	0	20
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	46.2	46.4	92	93	70-130	0	20
Dibromochloromethane	ug/L	<2.6	50	50	48.3	49.1	97	98	70-130	1	20
Dichlorodifluoromethane	ug/L	<0.50	50	50	41.9	41.4	84	83	10-132	1	20
Ethylbenzene	ug/L	<0.22	50	50	51.6	52.1	103	104	80-125	1	20
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	51.5	51.9	103	104	70-130	1	20
m&p-Xylene	ug/L	<0.47	100	100	102	103	102	103	70-130	0	20
Methyl-tert-butyl ether	ug/L	<1.2	50	50	46.2	45.9	92	92	51-145	1	20
Methylene Chloride	ug/L	<0.58	50	50	48.8	49.1	98	98	73-140	1	20
o-Xylene	ug/L	<0.26	50	50	49.9	50.4	100	101	70-130	1	20
Styrene	ug/L	<0.47	50	50	51.5	52.0	103	104	70-130	1	20
Tetrachloroethene	ug/L	<0.33	50	50	51.2	51.2	102	102	70-130	0	20
Toluene	ug/L	<0.17	50	50	50.5	51.2	101	102	80-131	1	20
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	50.7	50.6	101	101	73-148	0	20
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	41.5	41.8	83	84	70-130	1	20
Trichloroethene	ug/L	<0.26	50	50	54.2	54.2	108	108	70-130	0	20
Trichlorofluoromethane	ug/L	<0.21	50	50	57.6	57.2	115	114	74-147	1	20
Vinyl chloride	ug/L	<0.17	50	50	43.7	43.4	87	87	41-129	1	20
Xylene (Total)	ug/L	<1.5	150	150	152	153	101	102	70-130	1	20
4-Bromofluorobenzene (S)	%						99	99	70-130		
Dibromofluoromethane (S)	%						105	105	70-130		
Toluene-d8 (S)	%						99	100	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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 at or above the adjusted LOD.

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-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60615481 ALLOUEZ PH II

Pace Project No.: 40202694

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40202694001	SP-109	EPA 8260	346723		
40202694002	SP-105	EPA 8260	346723		
40202694003	SP-111	EPA 8260	346723		
40202694004	SP-112	EPA 8260	346723		
40202694005	SP-114	EPA 8260	346723		
40202694006	MW-4	EPA 8260	346723		
40202694007	MW-5	EPA 8260	346723		
40202694008	MW-6	EPA 8260	346723		
40202694009	TRIP	EPA 8260	346723		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: AZCOM

Project # 40202094

Page 32 of 33

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #/ID of preservation (if pH adjusted):

Initial when completed:


Date/Time:

Pace Lab #	Glass						Plastic						Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤	pH after adjusted	Volume (mL)				
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU								SP5T	ZPLC	GN	
001																	3																	2.5 / 5 / 10
002																	3																	2.5 / 5 / 10
003																	3																	2.5 / 5 / 10
004																	3																	2.5 / 5 / 10
005																	3																	2.5 / 5 / 10
006																	3																	2.5 / 5 / 10
007																	3																	2.5 / 5 / 10
008																	3																	2.5 / 5 / 10
009																	2																	2.5 / 5 / 10
010																																		2.5 / 5 / 10
011																																		2.5 / 5 / 10
012																																		2.5 / 5 / 10
013																																		2.5 / 5 / 10
014																																		2.5 / 5 / 10
015																																		2.5 / 5 / 10
016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

11/30/20

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): Yes No N/A *If yes look in headspace column


AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL •	
AG5U 100 mL amber glass unpres	BP3B 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: AECOM Project #: _____
 Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____
 Tracking #: _____
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer Used SR - Rot Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: - /Corr: _____
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

WO# : 40202694

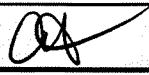


40202694

Person examining contents:
 Date: 1/30/20
 Initials: JD

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>Page #/po /phone</u> <u>1/30/20 JD</u>
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	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<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:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
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 <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
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.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
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): <u>439</u>		

Client Notification/ Resolution: If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review:  Date: 1/31/20

