



February 26, 2024

Mr. Kevin Krejny  
Utilities Director  
City of Piqua  
121 Bridge Street  
Piqua, OH 45356

**Subject: Environmental Site Assessment Report**

Former Water Treatment Plant, 9300 OH-66, Piqua, OH  
WSP Project No. 7775232021

Dear Mr. Krejny:

WSP USA Environment & Infrastructure Inc. (WSP) has prepared this letter report to document an Environmental Site Assessment of the property located at 9300 OH-66, Piqua, Miami County, Ohio (Site) shown on **Figure 1** (Attachment 1). The Environmental Site Assessment was conducted in general accordance with the *Site Assessment Work Plan* that was prepared by WSP and dated December 21, 2023, with any deviations described herein.

The Site is owned by the City of Piqua and was operated as the City of Piqua's Water Treatment Plant from 1925 until 2017. The Energy Storage Response Group LLC (ESRG) operated at the Site from 2018 through September 2023, conducting destructive and non-destructive testing of lithium-ion batteries, including open burning. The objective of the Environmental Site Assessment was to determine if Site activities related to battery testing and burning have resulted in environmental impairment of the Site.

**Site Background**

ESRG tested damaging forces on batteries and conducted research/training on fire fighting techniques associated with lithium-ion battery fires. Based on information provided in regulatory files and by the City of Piqua, ESRG's operations were conducted in three areas, which were designated as Areas of Interest (AOIs) for the Environmental Site Assessment.

- AOI 1: Test Room – The Test Room is located on the west end of the outbuilding located west of the former Water Treatment Plant building. The Test Room was used for deflagration and destructive testing of lithium-ion batteries and monitoring of air pollutant emissions. The Test Room is constructed with fireproof wall panels. The exterior is metal-sided, and the roof contained a hood and exhaust system. There is a grated floor drain in the Test Room that leads to a sub-grade basin that

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was used for the collection of fire suppressant wastewater. During decommissioning, ESRC emptied the Test Room of equipment and materials, removed water from the basin, and filled the basin with soil/gravel from the Site.

- AOI 2: Test Pad – The Test Pad is a concrete pavement pad that is 40 feet by 120 feet and 8-inch thick surrounded by gravel, located on the west and southwest side of the Site. The Test Pad was used for open burning of lithium-ion batteries and fire safety training. The Test Pad includes two sub-grade basins that were used for the collection of fire suppressant wastewater. The basins are prefabricated vaults consisting of 10-inches thick concrete walls and floor. During decommissioning, ESRC’s equipment and materials were removed from the Test Pad. Wastewater was removed from the two basins and the basins were filled with soil/gravel from the Site.
- AOI 3: Gravel Storage Area – ESRC staged equipment and materials in a gravel surfaced, enclosed (fenced) storage area to the north of the Test Room. The fence and gravel surfacing were installed in summer of 2023, but equipment and materials (including lithium-ion batteries) were staged in the same area prior to that time. The batteries were covered with tarps at least some of the time. No testing activities took place in the gravel storage area. Soil removed from the area to accommodate the placement of gravel is staged in a stockpile just south of the enclosed area. During decommissioning, ESRC’s equipment and materials were removed from the Gravel Storage Area.

The positive cathode material in lithium-ion batteries is composed of lithium cobalt oxide, lithium manganese oxide, lithium iron phosphate, lithium nickel manganese cobalt oxide, or lithium nickel cobalt aluminum oxides. The anode in lithium-ion batteries is formed out of carbon (e.g., graphite) and coated onto a metal collector, usually copper. The liquid electrolyte consists of organic carbonates, such as ethylene carbonate, dimethyl carbonate, or diethyl carbonate, and a dissociated conducting salt such as lithium hexafluorophosphate<sup>1</sup>. Aluminum is usually used for the pack due to its lightweight characteristic. Lithium-ion batteries can become damaged due to physical impacts, temperature extremes, and overcharging. Heat released during lithium cell failure can lead to a chain reaction involving an exponential increase in temperature known as thermal runaway. Thermal runaway can cause the cell housing to open or burst due to pressure changes, releasing flammable gases, and resulting in a fire. Gases released into the air can include carbon monoxide, carbon dioxide, hydrogen fluoride, hydrogen chloride, sulphur dioxide, hydrogen cyanide, hydrocarbons (methane, ethene, propene, ethane, butene, propane, butane), and water vapor.

Based upon the composition of the batteries and chemical substances that may be released in a fire, WSP identified the following chemicals of concern (COCs) for the Environmental Site Assessment:

- Target Analyte List [TAL] metals, which include metals, metalloids, and non-metal elements,
- Cyanide,

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<sup>1</sup> Held et al, 2022, *Thermal runaway and fire of electric vehicle lithium-ion battery and contamination of infrastructure facility*, Published by Elsevier Ltd Science Direct Journal

- Anions (chloride, fluoride, nitrate, nitrite, sulfate, phosphate) [aqueous].
- Polycyclic aromatic hydrocarbons (PAHs), which are formed through incomplete combustion of organic substances.

### **Sampling Activities**

The Site Assessment sampling activities were conducted from January 22-23, 2024. Soil samples were collected from fourteen sampling locations, including eleven (11) borings (SB-1 through SB-10, BK-1) and three stockpile sampling locations (SP-1 through SP-3). Wipe samples were collected from five locations inside the Test Room (east wall [EWS], north wall [NWS], west wall [WWS], south wall [SWS], and the east side of the roof vent [RVEWS]). Storm water was collected from one location (CB-1) in vicinity of AOI 1: Test Room. The sampling locations are depicted on **Figure 2** (Attachment 1). The sampling locations were positioned to assess the AOIs as follows:

- AOI 1: Test Room – SB-4, SB-5, SB-6, CB-1, and the wipe samples inside the Test Room
- AOI 2: Test Pad – SB-7, SB-8, SB-9, SB-10
- AOI 3: Gravel Storage Area – SB-1, SB-2, SB-3, and the stockpile samples (SP-1, SP-2, and SP-3).

In addition, boring BK-1 was positioned at the far southwest corner of the Site to assess soil conditions unlikely to have been impacted by ESRG operations to provide background data for comparative purposes.

### Soil Sampling

The borings were advanced to a depth of four feet (ft) below ground surface (bgs). Soil cores were retrieved in two ft long discrete intervals using a dual-tube or macro-core sampler. WSP logged descriptions of the soil cores (i.e., texture, color, moisture content, etc.) on boring logs, which are provided in Attachment 2. Soil from each two-ft interval (i.e., 0-2 ft bgs, 2-4 ft bgs) was placed into a stainless-steel bowl and homogenized using a stainless-steel scoop prior to being transferred into laboratory-supplied sample containers appropriate for the analyses. Gravel and vegetation were excluded from the samples. No sample was collected for the 0-2 ft bgs intervals of SB-1 and SB-3 because only coarse gravel was retrieved. The borings were backfilled with bentonite. Excess soil from each boring was placed on top or beside its borehole of origin.

Three soil samples were collected from the soil stockpile at AOI 3. At each sampling location, the top six inches of soil was removed from the stockpile surface using a shovel or trowel, and a grab soil sample was collected from the soil beneath this depth.

### Wipe Sampling

Five wipe samples were collected from the Test Room, one from each of the four side walls and one from the east side of the roof vent. The sampling locations were biased to areas with visible charring/residue. Each sample area was defined using a Teflon template that had a 10 centimeter (cm) by 10 cm square opening in the center of the template. The wipe samples

were collected using laboratory-prepared wipe sample kits composed of a gauze pad, laboratory-supplied analyte-free water, dropper, and jar. To collect the residue wipe sample, the gauze sampling pad was removed from the jar and wetted with the laboratory-supplied analyte-free water using the laboratory-provided dropper. The wipe samples were collected by rubbing the moistened gauze pad vertically then horizontally in a zig-zag pattern on the 100 square cm area defined by the template to collect any residue. Each wipe was then returned to the laboratory-supplied jar and sealed.

### Stormwater Sampling

A stormwater sample was collected at the catch basin (CB-1) on January 23, 2024, during an active precipitation (rain) event. The stormwater grate was removed, and a sample of water flowing over the edge of the catch basin collar was captured directly into the laboratory-supplied containers.

### Quality Assurance (QA)/Quality Control Samples

In addition to the primary samples, the following quality control (QC) samples were also collected:

- Equipment blank - An equipment blank was collected by pouring laboratory-supplied analyte-free water over the scoop and into the stainless-steel bowl prior to transferring the water into laboratory-supplied sampling containers. The equipment blank was collected after the soil sampling was completed and the sampling equipment had been decontaminated. Equipment blanks are used to determine if decontamination procedures were adequate and to evaluate for potential cross-contamination.
- Duplicate sample - Duplicate samples were collected by dividing soil from a sampling interval into two aliquots following homogenization procedures. Duplicate data is used to assess the homogeneity of the sampling results. Duplicate samples were collected at SB-8, 2-4 ft bgs and SB-5, 0-2 ft bgs.
- Field blank - A field blank wipe sample was collected by removing a gauze pad from its jar, wetting the gauze pad with deionized water, waving it for approximately 30 second in the air, and returning it to the laboratory-supplied jar and sealed. Field blanks are used to provide an indication of field and laboratory conditions that may result in bias of sample data.

### Sample Labeling, Handling, and Chain-of-Custody

Primary and duplicate samples were uniquely labeled with nomenclature containing the location identifier. Depth and the quality control indicator (R = Duplicate) were also included in the sample identifier if needed for differentiation. The equipment blank and field blank were identified using EB and FB, respectively, along with the sample collection date.

The samples were placed into a cooler with ice and kept on ice/chilled until transferred to the laboratory via laboratory courier. Chain-of-custody was maintained by the samplers until

relinquished to the laboratory courier and is documented on chain-of-custody forms that accompanied the samples throughout the process.

### **Decontamination**

Non-dedicated, reusable sampling equipment was decontaminated before use, between sampling locations, and at the completion of the sampling event. Sampling equipment was decontaminated using a Liquinox® water wash, potable water rinse, and final distilled water rinse. Decontamination water was containerized in a 5-gallon bucket with a lid and staged in the Test Room pending off-site disposal. Following collection of all the decontamination water into the bucket, a sample was collected from the bucket for waste characterization profiling. Although the Work Plan specified collecting a field measurement for pH, this was not performed due to field crew oversight.

### **Laboratory Analyses**

WSP subcontracted Summit Environmental Technologies, Inc., (SET) located in Cuyahoga Falls, Ohio to perform the laboratory analyses. SET is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory.

The soil samples were analyzed for the following:

- TAL metals by method 6010: aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, cobalt, copper, iron, lead, lithium, magnesium, manganese, molybdenum, nickel, phosphorus, potassium, selenium, silicon, silver, sodium, strontium, thallium, tin, titanium, vanadium, and zinc.
- Cyanide by method 9014.
- Polycyclic aromatic hydrocarbons (PAHs) by method 8270.

The analytical results for the soil samples and duplicates are summarized in **Table 1** (Attachment 3).

The wipe samples were analyzed for TAL metals by method 6010. The analytical results for the wipe samples and field blank are summarized in **Table 2** (Attachment 3).

The stormwater sample was analyzed for the following:

- TAL metals by method 6010.
- Cyanide by method 9014.
- Anions by method 9056: bromide, chloride, fluoride, nitrate, nitrite, ortho-phosphate, and sulfate.

The analytical results for the stormwater sample are summarized in **Table 3** (Attachment 3).

The decontamination water sample was analyzed for the following:

- TAL metals by method 6010.
- Anions by method 9056: bromide, chloride, fluoride, nitrate, nitrite, ortho-phosphate, and sulfate.

The analytical results for the decontamination water sample and equipment blank are described below and included in the analytical data package, which is provided in Attachment 4.

## Data Evaluation

### Soil Data

TAL metals, PAHs, and cyanide were detected in one or more of the soil samples collected from the Site. Analytical data for the soil samples was screened using Ohio EPA Voluntary Action Program (VAP) Generic Direct Contact Soil Standards (GDCSS) for Commercial and Industrial Land Use or US EPA Regional Screening Levels (RSLs) for the Composite Worker to evaluate potential human health risk and Ohio EPA Leach-Based Soil Values (LBSVs) to evaluate potential risk to groundwater [collectively referred to as “comparison criteria”]. These criteria are included in **Table 1** for comparison. In addition, concentrations of COCs in the soil samples from BK-1 were considered as background (i.e., unimpacted by Site activities related to battery testing and burning) for comparative purposes.

PAHs were detected in soil samples from SB-7, SB-8, SB-10, and the three stockpile samples. PAHs are ubiquitous in the environment as a by-product of incomplete combustion of organic matter and carbon fuels and a naturally occurring component of petroleum and coal. None of the PAH concentrations detected in the Site soil samples exceeded the comparison criteria.

Cyanide was detected in only one soil sample (SB-6, 0-2 ft bgs) at a concentration well below the comparison criteria.

One or more TAL metals were detected in every soil sample. The highest concentrations of lithium, cobalt, copper, and nickel were detected at SB-8, 0-2 ft bgs (AOI 2: Test Pad). Concentrations of TAL metals detected in Site soil were less than the comparison criteria with the exception of one analyte:

- Arsenic was detected in seven soil samples at concentrations exceeding the Ohio EPA LBSV for protection of groundwater. None of the arsenic data exceeded the direct contact criteria for protection of human health.

Some TAL metals can be naturally occurring in soil; therefore, where Site soil data exceeded comparison criteria, background levels were also considered. The BK-1 soil results and published soil background studies were used for the evaluation. Arsenic was detected in the Site soil samples at concentrations ranging from 3.08 to 18.2 mg/kg. Seven of the arsenic results exceeded the Ohio EPA LBSV of 6 mg/kg but were below the U.S. EPA RSL for Composite Workers (30 mg/kg) and Ohio VAP GDCSS for Commercial or Industrial Workers (100 mg/kg). Background levels of arsenic detected in the soil samples collected from BK-1 were 3.73 mg/kg (0-2 ft bgs) and 5.72 mg/kg (2-4 ft bgs). Ohio EPA has conducted background studies for arsenic in several Ohio counties although not Miami County. Ohio EPA’s background study of the adjacent Montgomery County identified background concentrations

of arsenic ranging from 2.92 to 11.1 mg/kg<sup>2</sup>. Considering background levels of arsenic in southwest Ohio and the Site use history, WSP considers it to be unlikely that the arsenic detected in Site soil samples is attributed to Site activities related to lithium-ion battery testing and burning.

### Wipe Data

The following analytes were detected in one or more of the wipe samples from the Test Room: aluminum, antimony, barium, boron, calcium, chromium, cobalt, copper, iron, lithium, magnesium, manganese, nickel, phosphorus, silicon, tin, titanium, and zinc. The highest detections were generally identified in the wipe sample of the roof vent (cobalt, iron, manganese, nickel, iron, phosphorus, silicon, tin, zinc). Calcium, iron, and magnesium were detected in the field blank, suggesting potential laboratory or field sampling procedural bias for these three compounds.

### Stormwater Data

TAL metals, fluoride, and sulfate were detected in the stormwater sample collected from catch basin CB-1. The stormwater sample results were initially screened using drinking water criteria: Maximum Contaminant Levels (MCLs), Secondary Maximum Contaminant Levels (SMCLs), Ohio EPA Drinking Water Standards for Ohio Public Water Systems, and Ohio EPA Voluntary Action Program Unrestricted Potable Use Standards. These criteria are included in **Table 3** for comparison. Aluminum, cobalt, iron, lead, and manganese were detected in the stormwater sample at concentrations exceeding the drinking water criteria. Calcium, lithium, magnesium, phosphorus, potassium, silicon, sodium, and titanium do not have published MCLs, SMCLs, or Ohio EPA drinking water standards and were detected in the sample. U.S. EPA has published a residential tap water RSL for lithium of 0.04 mg/L. The concentration of lithium in the stormwater sample collected from the Site marginally exceeds the tap water RSL.

Sampling results exceeding drinking water criteria or for which no standards have been published were further screened using the Outside the Mixing Zone Average (OMZA) Statewide water quality criteria for protection of aquatic life and human health, as available. OMZA water quality criteria for protection of human health or aquatic life were available for iron (0.3 mg/L) and lead (0.0064 to 0.037 mg/L depending on water hardness). The concentrations of iron and lead detected in the stormwater sample exceed these criteria.

### Equipment Blank

There were no detections of TAL metals, PAHs, or cyanide in the equipment blank, suggesting decontamination methods were effective.

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<sup>2</sup> Ohio EPA, Evaluation of Background Metal Soil Concentrations in Montgomery County – Dayton Area, July 2014.

## Decontamination Water

TAL metals (aluminum, barium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, nickel, phosphorus, potassium, silicon, sodium, titanium, and zinc), chloride, fluoride, orthophosphate, and sulfate were detected in the decontamination water sample (Sample WC1-012324). The data is included in Attachment 4 and will be used for waste profiling for disposal.

## **Summary**

WSP conducted an Environmental Site Assessment of the property at 9300 OH-66, Piqua, OH to determine if lithium-ion battery testing and burning activities at the Site have resulted in environmental impairment. Three AOIs were assessed: AOI 1-Test Room, AOI 2-Test Pad, and AOI 3-Gravel Storage Area (including adjacent soil stockpile) for COCs, including TAL metals, anions, PAHs, and cyanide. WSP conducted the sampling activities on January 22-23, 2024, collecting 23 soil samples, one stormwater sample, five wipe samples, and quality control samples.

Based upon the results of the Site Assessment, COCs related to battery testing and burning were detected in the soil, stormwater, and the wipe samples. The data were evaluated using published regulatory criteria as screening levels to assess potential risk to human health and groundwater via leaching. One analyte was detected in the soil samples at concentrations exceeding the screening levels:

- Arsenic was detected in Site soil at concentrations ranging from 3.08 mg/kg to 18.2 mg/kg with six results exceeding the LBSV for protection of groundwater. Arsenic is naturally occurring in southwest Ohio soils, and concentrations detected in the Site soil samples were at or near reasonably anticipated background levels.

Wipe samples collected inside the Test Room show residual metals contamination on the walls and roof vent. The following TAL metals were detected in the wipe sample from the Test Room: aluminum, antimony, barium, boron, calcium, chromium, cobalt, copper, iron, lithium, magnesium, manganese, nickel, phosphorus, silicon, tin, titanium, and zinc. The highest detections were generally identified in the wipe sample of the roof vent. Screening levels or regulatory criteria for TAL metals determined through wipe sampling are not available.

TAL metals, fluoride, and sulfate were detected in the stormwater sample collected from catch basin CB-1. Aluminum, cobalt, iron, lead, lithium, and manganese were detected in the sample at concentrations exceeding drinking water criteria. Data exceeding drinking water criteria, or for which no standards have been published, were further screened using the OMZA Statewide water quality criteria for protection of aquatic life and human health. Iron and lead concentrations in the stormwater sample exceed the OMZA water quality criteria for protection of human health or aquatic life. Stormwater drainage from the catch basin reportedly connects with the former Water Treatment Plant foundation dewatering system, and discharges to an outfall at the Great Miami River, southeast of the Roadside Park.

## Closing

We appreciate the opportunity to work with you on this project. Please feel free to contact the undersigned at 937-859-3600 if you have any questions or require additional information.

Yours sincerely,



Russell Dornbusch  
Senior Geologist



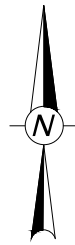
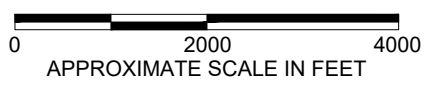
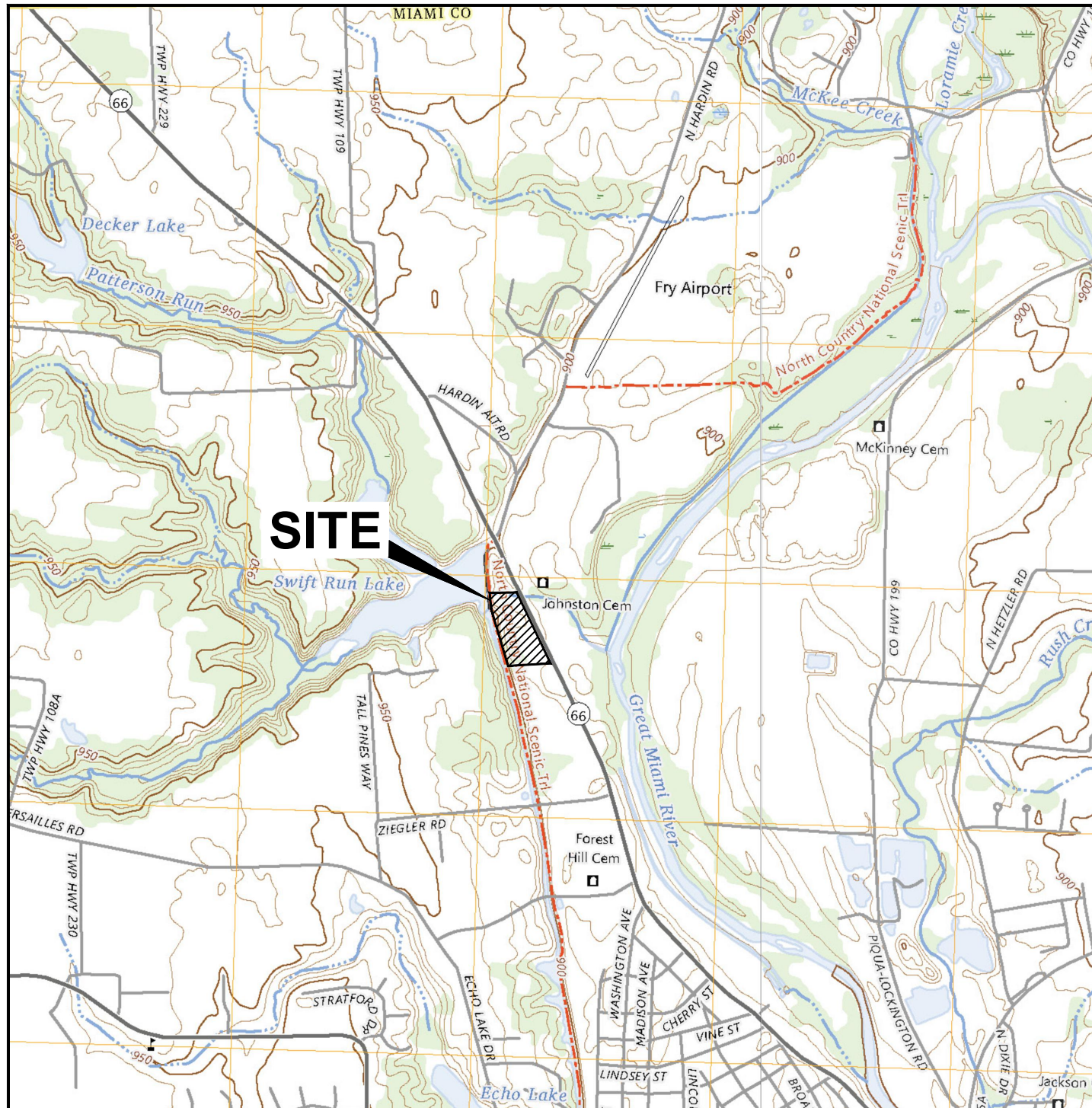
Laura Funk  
Senior Project Manager

## Attachments:

- 1 - Figure
- 2 - Boring Logs
- 3 - Data Tables
- 4 - Analytical Data Package

**Attachment 1**  
**Figures**

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REFERENCE: USGS 7.5-minute topographic quadrangle maps of Piqua East and Piqua West, Ohio, 2023.

CONSULTANT

WSP USA Environment & Infrastructure Inc.

CONSULTANT



DATE 11/07/2023

DESIGNED ---

PREPARED RLB

REVIEWED RED

APPROVED RED/PJS

PROJECT/CLIENT

CITY OF PIQUA  
Former Water Treatment Plant, Piqua, Ohio

TITLE

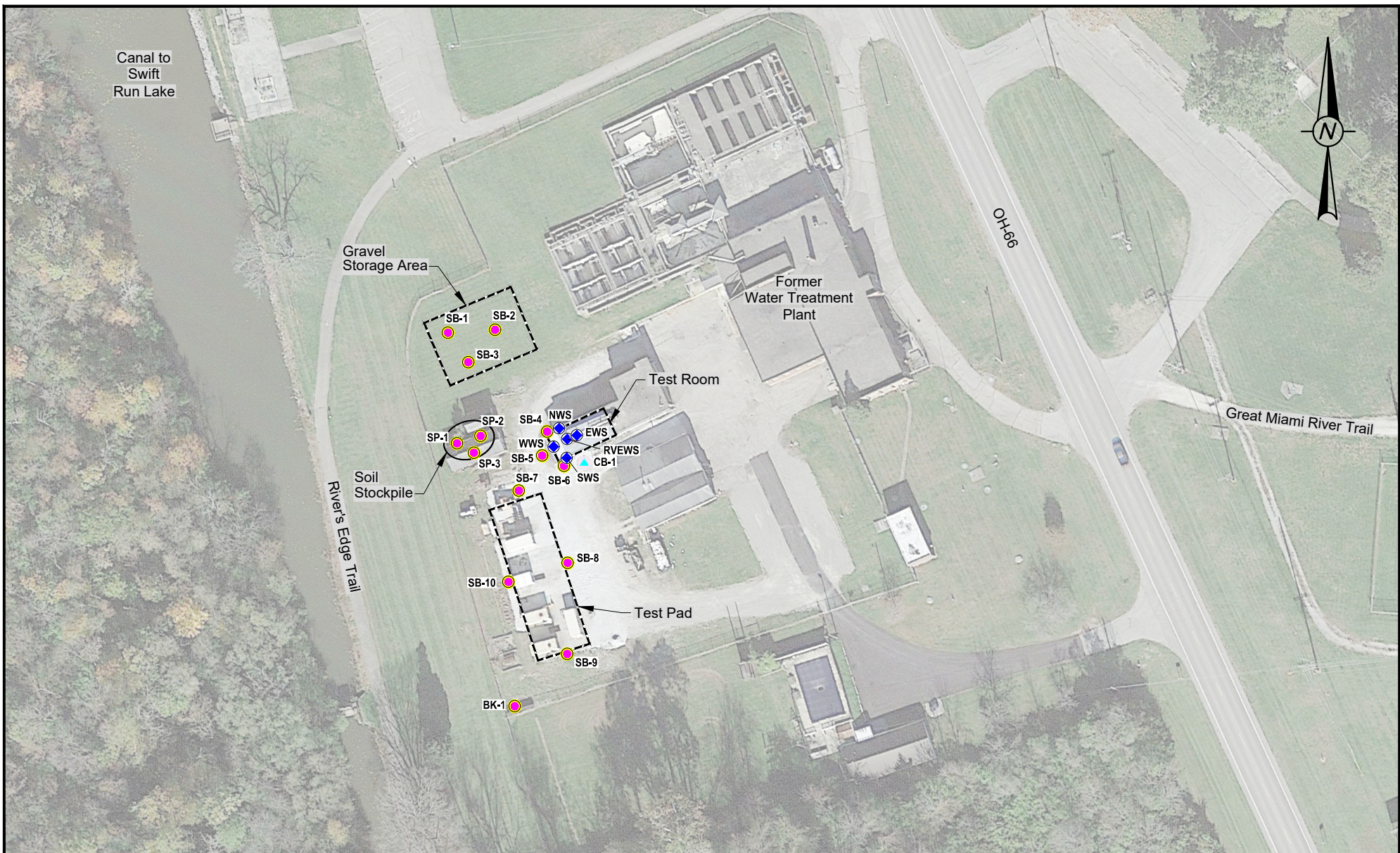
SITE LOCATION MAP

PROJECT NO.  
7775 23 2021

REV.

FIGURE

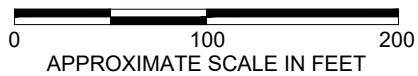
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**LEGEND**

- Soil Sample Location
- Storm Water Sample Location
- Wipe Sample Location

Google Earth Pro image dated 11/2021.



**CONSULTANT NAME**

WSP USA Environment & Infrastructure Inc.

**CONSULTANT**



**DATE** 01/25/2024

**DESIGNED** ---

**PREPARED** RLB

**REVIEWED** LF

**APPROVED** LF/PJS

**CLIENT NAME/PROJECT**

CITY OF PIQUA  
Former Water Treatment Plant, Piqua, Ohio



**TITLE**

PHASE II SAMPLING LOCATIONS

**PROJECT NO.**  
7775 23 2021 03

**REV.**

**FIGURE**  
2

**Attachment 2**  
**Boring Logs**

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**Attachment 3**  
**Data Tables**

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**Table 1**  
**Soil Data Summary**  
**Former Water Treatment Plant**  
**9300 OH-66, Piqua, OH**

Parameters	Ohio VAP GDCSS for Commercial or Industrial Land Use	U.S. EPA RSL for Composite Worker	Ohio EPA Leach-Based Soil Values	Location:	BK1	BK1	SB1	SB2	SB2	SB3	SB4	SB4	SB5	SB5	SB5				
				Sample Depth:	0-2	2-4	2-4	0-2	2-4	2-4	0-2	2-4	0-2	2-4	0-2	2-4	2-4		
				Sample Date:	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	
				Sample ID:	BK1(0-2)	BK1(2-4)	SB1(2-4)	SB2(0-2)	SB2(2-4)	SB3(2-4)	SB4(0-2)	SB4(2-4)	SB5(0-2)	SB5(0-2)R	SB5(2-4)	SB5(2-4)	SB5(2-4)	SB5(2-4)	
				QC Type:													Duplicate		
				Units															
<b>TAL Metals</b>																			
Aluminum	--	1,100,000	--	mg/Kg	8,500	9,780	15,500	6,690	12,000	3,100	2,530	2,610	5,630	3,310	9,180				
Antimony	1,900	470	7.2	mg/Kg	<2.39	<2.34	QM-	<2.81	QM-	<2.54	<2.81	<2.44	<2.29	<2.31	<2.57				
Arsenic	100	30	6	mg/Kg	3.73	5.72	<b>8.03</b>	5.42	5.50	3.40	3.30	3.10	4.86	4.14	<b>6.26</b>				
Barium	760,000	220,000	110,000	mg/Kg	29.1	28.1	65.9	35.4	50.9	17.1	48.6	20.1	80.9	78.3	33.8				
Beryllium	8,800	2,300	114	mg/Kg	<0.478	<0.467	0.585	<0.509	<0.563	<0.488	<0.459	<0.451	<0.461	<0.459	<0.514				
Boron	--	230,000	--	mg/Kg	21.0	14.3	30.5	19.4	19.1	15.8	21.6	22.0	21.5	23.8	24.7				
Cadmium	3,300	100	42	mg/Kg	<0.478	<0.467	QM-	<0.562	QM-	<0.509	<0.563	<0.488	<0.459	<0.461	<0.514				
Calcium	--	--	--	mg/Kg	120,000	MB+	158,000	89,400	MB+	114,000	MB+	34,100	MB+	141,000	MB+				
Chromium	240*	63	113	mg/Kg	8.32	7.62	QM-	13.7	7.84	11.4	4.72	4.60	4.64	6.76	9.44				
Cobalt	1,400	350	--	mg/Kg	4.68	3.20	QM-	5.75	QM-	6.22	6.52	<2.44	4.40	<2.26	27.1				
Copper	190,000	47,000	--	mg/Kg	8.55	9.60	15.6	13.1	9.27	<7.81	9.31	<7.22	25.5	42.4	11.0				
Iron	--	820,000	--	mg/Kg	18,400	20,100	24,600	12,700	17,000	9,550	7,450	8,080	12,100	15,900	18,600				
Lead	800	800	178	mg/Kg	4.45	5.60	QM-	8.98	QM-	6.90	7.62	3.54	6.06	9.45	7.00				
Lithium	--	2,300	--	mg/Kg	13.4	<9.34	17.3	<10.2	<11.3	<9.76	<9.18	<9.03	13.7	18.2	10.9				
Magnesium	--	--	--	mg/Kg	30,500	37,300	36,200	49,300	16,600	50,500	75,800	70,800	62,400	69,300	52,500				
Manganese	88,000	26,000	--	mg/Kg	1,030	265	QM-	378	232	177	159	200	161	247	251				
Molybdenum	--	5,800	--	mg/Kg	<2.39	<2.34	QM-	<2.81	QM-	<2.54	<2.81	<2.44	<2.29	<2.31	<2.57				
Nickel	83,000	18,000	363	mg/Kg	11.4	8.23	QM-	17.0	14.4	10.6	5.21	14.4	3.56	71.2	10.2				
Phosphorus	--	-- <sup>†</sup>	--	mg/Kg	331	191	QM-	272	QM-	192	248	118	488	188	226				
Potassium	--	--	--	mg/Kg	1,210	1,030	QM-	1,920	QM-	997	718	1,430	1,400	1,240	1,400				
Selenium	23,000	5,800	4.3	mg/Kg	<2.39	<2.34	QM-	<2.81	QM-	<2.54	<2.81	<2.44	<2.29	<2.31	<2.57				
Silicon	--	--	--	mg/Kg	220	MB+	441	BMB+QL+QM+	373	MB+QMR	264	MB+	337	MB+	209	MB+			
Silver	23,000	5,800	6,240	mg/Kg	<2.39	<2.34	QM+	<2.81	QM+	<2.54	<2.81	<2.44	<2.29	<2.31	<2.57				
Sodium	--	--	--	mg/Kg	112	121	QM-	125	QM-	128	<113	136	155	148	160				
Strontium	--	700,000	--	mg/Kg	75.6	71.5	QM-	124	QM-	64.3	24.2	66.1	55.9	63.4	71.4				
Thallium	47**	12	3	mg/Kg	<0.955	<0.934	QM-	<1.12	QM-	<1.02	<1.13	<0.976	<0.918	<0.903	<1.03				
Tin	--	700,000	--	mg/Kg	<4.78	<4.67	QM-	<5.62	QM-	<5.09	<5.63	<4.88	<4.59	<4.61	<5.14				
Titanium	--	--	--	mg/Kg	83.8	116	QM-QMR	189	107	157	50.3	13.1	21.9	66.4	88.3				
Vanadium	23,000	5,800	65	mg/Kg	12.1	13.5	QM-	25.1	13.3	22	8.38	5.64	5.80	9.58	15.8				
Zinc	1,000,000	350,000	88,000	mg/Kg	39.9	33.3	QM-	57.0	33.0	37.3	20.1	9.44	11.8	29.4	40.8				
<b>PAHs</b>																			
Acenaphthene	1,000,000	45,000	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Acenaphthylene	130,000**	--	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Anthracene	670,000	230,000	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Benzo(a)anthracene	610	210	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Benzo(a)pyrene	62	21	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Benzo(b)fluoranthene	620	210	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Benzo(g,h,i)perylene	67,000**	--	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Benzo(k)fluoranthene	6,200	2,100	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Chrysene	62,000	21,000	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Dibenzo (a,h) anthracene	62	21	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Fluoranthene	89,000	30,000	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Fluorene	89,000	30,000	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Indeno(1,2,3-cd)pyrene	620	210	--	mg/Kg	<0.0437	<0.0432	<0.0463	<0.0442	<0.0465	<0.0416	<0.0427	<0.0427	<0.0424	<0.0419	<0.0464				
Naphthalene	420	86	0.27	mg/Kg	<0.0219	<0.0216	<0.0231	<0.0221	<0.0233	<0.0208	<0.0214	<0.0214	<0.0212	<0.0210	<0.0232				
Phenanthrene	670,000**	--	--	mg/Kg	<0.0492	<0.0485	<0.0521	<0.0498	<0.0523	<0.0468	<0.0481	<0.0481	<0.0477	<0.0472	<0.0522				
Pyrene	67,000	23,000	--	mg/Kg	<0.0820	<0.0809	<0.0868	<0.0829	<0.0872	<0.0779	<0.0801	<0.0801	<0.0795	<0.0786	<0.0869				
<b>Cyanide</b>																			
Cyanide	400	150	--	mg/Kg	<0.423	<0.547	<0.541	<0.466	<0.552	<0.329	<0.433	<0.484	<0.530	<0.358	QM-				

Notes:  
 Gray text signifies parameter was not detected at or above the concentration shown  
**Bold** signifies concentration exceeding one or more of the comparison criteria  
 -- Criterion not established for this parameter  
 Ohio EPA Leach Based Soil Value is based on Soil Type 1 (sands and gravels) and a dilution attenuation factor of 20 for source areas less than 1/2 acre  
 U.S. EPA RSL is based on a 1E10-5 Target Cancer Risk and Total Hazard Quotient of 1  
 B or MB+ = Analyte detected in the associated blank  
 EPA = Environmental Protection Agency  
 GDCSS = Generic Direct Contact Soil Standard  
 m = Manual Integration used to determine area response  
 MCL = U.S. EPA established Maximum Contaminant Levels for a public water system  
 mg/Kg = milligrams per kilogram  
 PAHs = Polycyclic Aromatic Hydrocarbons  
 QC = Quality control  
 QL-/± = The laboratory control sample (LCS) or LCS duplicate recovery failed low (-) or high (+)  
 QM+/- = The matrix spike (MS) or matrix spike duplicate (MSD) recovery failed low (-) or high (+)  
 QMR = The MS/MSD relative percent difference was outside of accepted recovery limits  
 RSL = Regional Screening Level  
 TAL = Target Analyte List  
 \*GDCSS for Chromium VI is shown  
 \*\*Ohio EPA CIDARS Supplemental GDCSS is shown  
 †RSL for white phosphorus is not an appropriate screening level for Site data comparison. Total phosphorus is reported by the analysis.

Prepared By: RED  
 Checked By: LF

**Table 1**  
**Soil Data Summary**  
**Former Water Treatment Plant**  
**9300 OH-66, Piqua, OH**

Parameters	Ohio VAP GDCSS for Commercial or Industrial Land Use	U.S. EPA RSL for Composite Worker	Ohio EPA Leach-Based Soil Values	Location:	SB6	SB6	SB7	SB7	SB8	SB8	SB8	SB9	SB9	SB10	SB10			
				Sample Depth:	0-2	2-4	0-2	2-4	0-2	2-4	0-2	2-4	2-4	0-2	2-4	0-2	2-4	
				Sample Date:	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024	1/23/2024
				Sample ID:	SB6(0-2)	SB6(2-4)	SB7(0-2)	SB7(2-4)	SB8(0-2)	SB8(2-4)	SB8(2-4)R	SB9(0-2)	SB9(2-4)	SB10(0-2)	SB10(2-4)			
				QC Type:								Duplicate						
Units																		
<b>TAL Metals</b>																		
Aluminum	--	1,100,000	--	mg/Kg	3,360	11,000	8,260	2,360	5,290	8,030	8,690	8,010	8,350	3,610	2,500			
Antimony	1,900	470	7.2	mg/Kg	<2.28	<2.47	<2.66	<2.49	<2.51	<2.36	<2.62	<2.70	<2.66	<2.19	<2.35			
Arsenic	100	30	6	mg/Kg	3.56	5.46	<b>6.27</b>	4.51	3.08	5.88	5.66	5.68	<b>8.91</b>	<b>18.2</b>	<2.35			
Barium	760,000	220,000	110,000	mg/Kg	47.7	40.3	39.6	13.0	52.9	32.3	45.8	32.7	34.0	46.7	77.6			
Beryllium	8,800	2,300	114	mg/Kg	<0.457	<0.493	<0.532	<0.499	<0.503	<0.472	<0.523	<0.539	<0.531	<0.438	<0.469			
Boron	--	230,000	--	mg/Kg	25.7	25.3	22.4	16.6	19.6	21.5	24.8	25.5	25.1	20.0	12.9			
Cadmium	3,300	100	42	mg/Kg	<0.457	<0.493	<0.532	<0.499	<0.503	<0.472	<0.523	<0.539	<0.531	<0.438	<0.469			
Calcium	--	--	--	mg/Kg	197,000 MB+	96,700 MB+	94,000 MB+	166,000 MB+	208,000 MB+	93,100 MB+	113,000 MB+	119,000 MB+	117,000 MB+	202,000 MB+	259,000 MB+			
Chromium	240*	63	113	mg/Kg	5.45	12.7	9.11	4.10	6.07	7.48	9.28	8.49	8.30	5.52	4.47			
Cobalt	1,400	350	--	mg/Kg	7.40	4.89	4.30	<2.49	111	4.41	5.12	3.65	3.70	4.84	40.1			
Copper	190,000	47,000	--	mg/Kg	13.1	11.1	12.9	<7.98	204	19.1	15.3	15.7	13.4	10.0	14.9			
Iron	--	820,000	--	mg/Kg	7,990	18,100	18,100	9,690	10,400	16,900	18,200	15,900	21,200	20,400	7,500			
Lead	800	800	178	mg/Kg	8.64	7.04	7.60	<2.49	9.91	9.08	8.11	5.54	9.24	6.47	13.1			
Lithium	--	2,300	--	mg/Kg	<9.14	18.8	11.1	<9.98	81.4	11.8	13.9	11.1	12.2	<8.75	<9.39			
Magnesium	--	--	--	mg/Kg	81,500	49,000	34,000	73,400	58,600	36,400	44,100	52,600	39,700	36,100	45,200			
Manganese	88,000	26,000	--	mg/Kg	172	246	225	210	310	233	235	243	274	184	285			
Molybdenum	--	5,800	--	mg/Kg	<2.28	2.78	<2.66	<2.49	<2.51	<2.36	<2.62	<2.70	5.14	3.31	<2.35			
Nickel	83,000	18,000	363	mg/Kg	29.5	12.4	10.7	4.80	303	12.1	13.4	9.91	10.2	12.2	65.1			
Phosphorus	--	7	--	mg/Kg	446	290	213	130	314	218	259	240	222	200	193			
Potassium	--	--	--	mg/Kg	1,760	1,370	1,430	572	1,160	1,240	1,720	1,290	1,330	932	683			
Selenium	23,000	5,800	4.3	mg/Kg	<2.28	<2.47	<2.66	<2.49	<2.51	<2.36	<2.62	<2.70	<2.66	<2.19	<2.35			
Silicon	--	--	--	mg/Kg	291 BMB+	413 MB+	255 MB+	19.9 MB+	385 MB+	291 BMB+	232 MB+	311 MB+	346 MB+	330 BMB+	289 BMB+			
Silver	23,000	5,800	6,240	mg/Kg	<2.28	<2.47	<2.66	<2.49	<2.51	<2.36	<2.62	<2.70	<2.66	<2.19	<2.35			
Sodium	--	--	--	mg/Kg	149	155	115	158	161	167	158	135	134	119	138			
Strontium	--	700,000	--	mg/Kg	49.8	40.4	50.4	58.7	53.8	55.8	60.9	52.6	54.6	48.0	66.1			
Thallium	47**	12	3	mg/Kg	<0.914	<0.986	<1.06	<0.998	<1.01	<0.944	<1.05	<1.08	<1.06	<0.875	<0.939			
Tin	--	700,000	--	mg/Kg	<4.57	<4.93	<5.32	<4.99	12.0	7.13	8.79	<5.39	<5.31	<4.38	<4.69			
Titanium	--	--	--	mg/Kg	16.5	301	104	22.2	55.6	81.9	107	90.4	104	95.6	58.2			
Vanadium	23,000	5,800	65	mg/Kg	6.88	22.4	15.4	5.85	8.70	12.1	16.1	15.4	15.3	8.75	6.38			
Zinc	1,000,000	350,000	88,000	mg/Kg	13.3	44.5	37.5	24.0	58.8	40.7	46.8	39.7	47.9	36.6	51.3			
<b>PAHs</b>																		
Acenaphthene	1,000,000	45,000	--	mg/Kg	<0.0418	<0.0428	<0.0445	<0.0415	<0.0433	<0.0428	<0.0427	<0.0442	<0.0437	<0.0407	<0.0436			
Acenaphthylene	130,000**	--	--	mg/Kg	<0.0418	<0.0428	<0.0445	<0.0415	<0.0433	<0.0428	<0.0427	<0.0442	<0.0437	<0.0407	<0.0436			
Anthracene	670,000	230,000	--	mg/Kg	<0.0418	<0.0428	<0.0445	<0.0415	<0.0433	<0.0428	<0.0427	<0.0442	<0.0437	<0.0407	<0.0436			
Benzo(a)anthracene	610	210	--	mg/Kg	<0.0418	<0.0428	<b>0.0466</b>	<0.0415	<b>0.0442</b>	<0.0428	<0.0427	<0.0442	<0.0437	<0.0407	<0.0436			
Benzo(a)pyrene	62	21	--	mg/Kg	<0.0418 m	<0.0428	<b>0.0679</b>	<0.0415	<b>0.0549</b>	<b>0.0446</b>	<b>0.0460</b>	<0.0442	<0.0437	<b>0.0712</b>	<0.0436			
Benzo(b)fluoranthene	620	210	--	mg/Kg	<0.0418	<0.0428	<b>0.0603</b>	<0.0415	<b>0.0492</b>	<0.0428	<0.0427	<0.0442	<0.0437	<b>0.0591</b>	<0.0436			
Benzo(g,h,i)perylene	67,000**	--	--	mg/Kg	<0.0418	<0.0428	<0.0445	<0.0415	<0.0433	<0.0428	<0.0427	<0.0442	<0.0437	<b>0.0707</b>	<0.0436			
Benzo(k)fluoranthene	6,200	2,100	--	mg/Kg	<0.0418 m	<0.0428	<0.0445	<0.0415	<0.0433	<0.0428	<0.0427	<0.0442	<0.0437	<0.0407	<0.0436			
Chrysene	62,000	21,000	--	mg/Kg	<0.0418	<0.0428	<b>0.0585</b>	<0.0415	<b>0.0559</b>	<b>0.0471</b>	<b>0.0466</b>	<0.0442	<0.0437	<b>0.0543</b>	<0.0436			
Dibenzo (a,h) anthracene	62	21	--	mg/Kg	<0.0418	<0.0428	<0.0445	<0.0415	<0.0433	<0.0428	<0.0427	<0.0442	<0.0437	<0.0407	<0.0436			
Fluoranthene	89,000	30,000	--	mg/Kg	<0.0418	<0.0428	<b>0.0918</b>	<0.0415	<b>0.0894</b>	<b>0.0556</b>	<b>0.0587</b>	<0.0442	<0.0437	<b>0.0577</b>	<0.0436			
Fluorene	89,000	30,000	--	mg/Kg	<0.0418	<0.0428	<0.0445	<0.0415	<0.0433	<0.0428	<0.0427	<0.0442	<0.0437	<0.0407	<0.0436			
Indeno(1,2,3-cd)pyrene	620	210	--	mg/Kg	<0.0418	<0.0428	<0.0445	<0.0415	<0.0433	<0.0428	<0.0427	<0.0442	<0.0437	<b>0.0467</b>	<0.0436			
Naphthalene	420	86	0.27	mg/Kg	<0.0209	<0.0214	<0.0223	<0.0208	<0.0217	<0.0214	<0.0213	<0.0221	<0.0219	<0.0203	<0.0218			
Phenanthrene	670,000**	--	--	mg/Kg	<0.0471 m	<0.0481	<0.0501	<0.0467	<0.0487	<0.0482	<0.0480	<0.0497	<0.0492	<0.0458	<0.0491			
Pyrene	67,000	23,000	--	mg/Kg	<0.0784	<0.0802	<0.0835	<0.0778	<b>0.0899</b>	<0.0803	<0.0800	<0.0828	<0.0820	<0.0763	<0.0818			
<b>Cyanide</b>																		
Cyanide	400	150	--	mg/Kg	1.40	<0.522	<0.486	<0.524	<0.543	<0.460	<0.446	<0.479	<0.521	<0.501	<0.387			

Notes:  
Gray text signifies parameter was not detected at or above the concentration shown  
**Bold** signifies concentration exceeding one or more of the comparison criteria  
-- Criterion not established for this parameter  
Ohio EPA Leach Based Soil Value is based on Soil Type 1 (sands and gravels) and a dilution attenuation factor of 20 for source areas less than 1/2 acre  
U.S. EPA RSL is based on a 1E10-5 Target Cancer Risk and Total Hazard Quotient of 1  
B or MB+ = Analyte detected in the associated blank  
EPA = Environmental Protection Agency  
GDCSS = Generic Direct Contact Soil Standard  
m = Manual Integration used to determine area response  
MCL = U.S. EPA established Maximum Contaminant Levels for a public water system  
mg/Kg = milligrams per kilogram  
PAHs = Polycyclic Aromatic Hydrocarbons  
QC = Quality control  
QL-/± = The laboratory control sample (LCS) or LCS duplicate recovery failed low (-) or high (+)  
QM+/- = The matrix spike (MS) or matrix spike duplicate (MSD) recovery failed low (-) or high (+)  
QMR = The MS/MSD relative percent difference was outside of accepted recovery limits  
RSL = Regional Screening Level  
TAL = Target Analyte List  
\*GDCSS for Chromium VI is shown  
\*\*Ohio EPA CIDARS Supplemental GDCSS is shown  
†RSL for white phosphorus is not an appropriate screening level for Site data comparison. Total phosphorus is reported by the analysis.

**Table 1**  
**Soil Data Summary**  
**Former Water Treatment Plant**  
**9300 OH-66, Piqua, OH**

Parameters	Ohio VAP GDCSS for Commercial or Industrial Land Use	U.S. EPA RSL for Composite Worker	Ohio EPA Leach-Based Soil Values	Location:	Stock Pile	Stock Pile	Stock Pile
				Sample Depth:	0.5-0.75	0.5-0.75	0.5-0.75
				Sample Date:	1/22/2024	1/22/2024	1/22/2024
				Sample ID:	SP-1-012224	SP-2-012224	SP-3-012224
				QC Type:			
Units							
<b>TAL Metals</b>							
Aluminum	--	1,100,000	--	mg/Kg	11,500	13,800	11,600
Antimony	1,900	470	7.2	mg/Kg	<2.76	<2.76	<2.51
Arsenic	100	30	6	mg/Kg	<b>6.45</b>	<b>7.00</b>	5.97
Barium	760,000	220,000	110,000	mg/Kg	62.0	62.7	60.0
Beryllium	8,800	2,300	114	mg/Kg	<0.552	<0.552	<0.503
Boron	--	230,000	--	mg/Kg	22.4	23.1	21.2
Cadmium	3,300	100	42	mg/Kg	<0.552	<0.552	<0.503
Calcium	--	--	--	mg/Kg	91,000 MB+	110,000 MB+	87,900 MB+
Chromium	240*	63	113	mg/Kg	10.7	11.1	10.3
Cobalt	1,400	350	--	mg/Kg	5.19	6.04	4.77
Copper	190,000	47,000	--	mg/Kg	13.7	15.5	13.0
Iron	--	820,000	--	mg/Kg	19,400	24,000	19,600
Lead	800	800	178	mg/Kg	16.9	16.4	15.1
Lithium	--	2,300	--	mg/Kg	<11.0	11.1	10.3
Magnesium	--	--	--	mg/Kg	47,300	17,600	35,000
Manganese	88,000	26,000	--	mg/Kg	404	418	338
Molybdenum	--	5,800	--	mg/Kg	<2.76	<2.76	<2.51
Nickel	83,000	18,000	363	mg/Kg	11.3	13.0	11.1
Phosphorus	--	-- <sup>†</sup>	--	mg/Kg	375	333	347
Potassium	--	--	--	mg/Kg	1,250	1,250	1,180
Selenium	23,000	5,800	4.3	mg/Kg	<2.76	<2.76	<2.51
Silicon	--	--	--	mg/Kg	446	406	389
Silver	23,000	5,800	6,240	mg/Kg	<2.76	<2.76	<2.51
Sodium	--	--	--	mg/Kg	139	116	123
Strontium	--	700,000	--	mg/Kg	49.0	73.0	60.2
Thallium	47**	12	3	mg/Kg	<1.10	<1.10	<1.01
Tin	--	700,000	--	mg/Kg	<5.52	<5.52	<5.03
Titanium	--	--	--	mg/Kg	139	126	128
Vanadium	23,000	5,800	65	mg/Kg	20.1	21.4	18.9
Zinc	1,000,000	350,000	88,000	mg/Kg	55.1	57.4	52.2
<b>PAHs</b>							
Acenaphthene	1,000,000	45,000	--	mg/Kg	<0.0487	<0.0475	<0.0455
Acenaphthylene	130,000**	--	--	mg/Kg	<0.0487	<0.0475	<0.0455
Anthracene	670,000	230,000	--	mg/Kg	<0.0487	<0.0475	<0.0455
Benzo(a)anthracene	610	210	--	mg/Kg	0.0647	0.0649	0.100
Benzo(a)pyrene	62	21	--	mg/Kg	0.0790	0.0923	0.135
Benzo(b)fluoranthene	620	210	--	mg/Kg	0.0638	0.0728	0.108
Benzo(g,h,i)perylene	67,000**	--	--	mg/Kg	0.0578	0.0674	0.0870
Benzo(k)fluoranthene	6,200	2,100	--	mg/Kg	<0.0487 m	<0.0475 m	0.0595 m
Chrysene	62,000	21,000	--	mg/Kg	0.0761	0.0772	0.123
Dibenzo (a,h) anthracene	62	21	--	mg/Kg	<0.0487	<0.0475	<0.0455
Fluoranthene	89,000	30,000	--	mg/Kg	0.158	0.138	0.209
Fluorene	89,000	30,000	--	mg/Kg	<0.0487	<0.0475	<0.0455
Indeno(1,2,3-cd)pyrene	620	210	--	mg/Kg	<0.0487	<0.0475	0.0642
Naphthalene	420	86	0.27	mg/Kg	<0.0244	<0.0238	<0.0228
Phenanthrene	670,000**	--	--	mg/Kg	0.0930	0.0649	0.107
Pyrene	67,000	23,000	--	mg/Kg	0.124	0.116	0.181
<b>Cyanide</b>							
Cyanide	400	150	--	mg/Kg	<0.476	<0.552	<0.525

Notes:

Gray text signifies parameter was not detected at or above the concentration shown

**Bold** signifies concentration exceeding one or more of the comparison criteria

-- Criterion not established for this parameter

Ohio EPA Leach Based Soil Value is based on Soil Type 1 (sands and gravels) and a dilution

attenuation factor of 20 for source areas less than 1/2 acre

U.S. EPA RSL is based on a 1E10-5 Target Cancer Risk and Total Hazard Quotient of 1

B or MB+ = Analyte detected in the associated blank

EPA = Environmental Protection Agency

GDCSS = Generic Direct Contact Soil Standard

m = Manual Integration used to determine area response

MCL = U.S. EPA established Maximum Contaminant Levels for a public water system

mg/Kg = milligrams per kilogram

PAHs = Polycyclic Aromatic Hydrocarbons

QC = Quality control

QL-/± = The laboratory control sample (LCS) or LCS duplicate recovery failed low (-) or high (+)

QM+/- = The matrix spike (MS) or matrix spike duplicate (MSD) recovery failed low (-) or high (+)

QMR = The MS/MSD relative percent difference was outside of accepted recovery limits

RSL = Regional Screening Level

TAL = Target Analyte List

\*GDCSS for Chromium VI is shown

\*\*Ohio EPA CIDARS Supplemental GDCSS is shown

†RSL for white phosphorus is not an appropriate screening level for Site data comparison. Total phosphorus is reported by the analysis.

**Table 2**  
**Wipe Data Summary**  
**Former Water Treatment Plant**  
**9300 OH-66, Piqua, OH**

Parameters	Location:	Testing Room	Testing Room	Testing Room	Testing Room	Testing Room	Field Blank
	Wall:	East Wall	North Wall	West Wall	South Wall	Roof Vent, East Wall	--
	Sample Date:	01/21/24	01/21/24	01/21/24	01/21/24	01/21/24	01/21/24
	Sample ID:	EWS-012224	NWS-012224	WWS-012224	SWS-012224	RVEWS-012224	FBWS-012224
	QC Type:						Field Blank
Units							
<b>TAL Metals</b>							
Aluminum	mg/wipe	0.586	2.35	10.7	1.82	8.08	<0.00500
Antimony	mg/wipe	0.0207	0.0351	0.0838	0.0391	0.252	<0.00500
Arsenic	mg/wipe	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Barium	mg/wipe	<0.00500	<0.00500	0.0160	<0.00500	0.0155	<0.00500
Beryllium	mg/wipe	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Boron	mg/wipe	<0.00500	0.0119	0.0275	<0.00500	0.200	<0.00500
Cadmium	mg/wipe	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Calcium	mg/wipe	4.70 MB+	4.97 MB+	7.58 MB+	4.33 MB+	0.415	0.0447
Chromium	mg/wipe	<0.0100	<0.0100	0.0112	<0.0100	0.0732	<0.0100
Cobalt	mg/wipe	0.301	1.26	5.18	1.01	7.32	<0.00500
Copper	mg/wipe	0.0556	0.169	0.628	0.150	1.16	<0.00500
Iron	mg/wipe	0.292	0.292	0.726	0.297	182	0.0222
Lead	mg/wipe	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Lithium	mg/wipe	0.168	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Magnesium	mg/wipe	0.106	0.124	0.343	0.113	0.102	0.0306
Manganese	mg/wipe	0.325	1.26	5.95	1.82	9.10	<0.00500
Molybdenum	mg/wipe	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Nickel	mg/wipe	0.920	5.41	13.7	<0.250	19.0	<0.00500
Phosphorus	mg/wipe	0.265	0.462	2.23	0.537	15.8	<0.0500
Potassium	mg/wipe	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
Selenium	mg/wipe	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Silicon	mg/wipe	0.398	0.443	0.695	0.446	1.01	<0.100
Silver	mg/wipe	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Sodium	mg/wipe	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Strontium	mg/wipe	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	mg/wipe	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Tin	mg/wipe	<0.00500	<0.00500	<0.00500	<0.00500	0.0387	<0.00500
Titanium	mg/wipe	<0.0500	<0.0500	0.0802	<0.0500	<0.0500	<0.0500
Vanadium	mg/wipe	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Zinc	mg/wipe	0.0120	0.0331	0.0849	0.0273	0.123	<0.00500

**Notes:**

Gray text signifies parameter was not detected at or above the concentration shown

QC = Quality control

mg/wipe = milligrams per wipe. Wiped area was 100 square centimeters.

MB+ = Analyte detected in the associated laboratory blank

Prepared By: RED

Checked By: LF

**Table 3**  
**Stormwater Data Summary**  
**Former Water Treatment Plant**  
**9300 OH-66, Piqua, OH**

Parameters	MCL or Ohio EPA Drinking Water Standards for Ohio Public Water Systems	SMCL or Ohio EPA Secondary Standards for Ohio Public Water Systems	Ohio VAP Unrestricted Potable Use Standard	Location:	Catch Basin
				Sample Depth:	Not Applicable
				Sample Date:	01/23/2024
				Sample ID:	SW1-012324
				QC Type:	
Units					
<b>TAL Metals</b>					
Aluminum	--	0.05 to 0.2		mg/L	<b>8.88</b>
Antimony	0.006	--	0.006	mg/L	<0.0200
Arsenic	0.01	--	0.01	mg/L	<0.0100
Barium	2	--	2	mg/L	0.0865
Beryllium	0.004	--	0.004	mg/L	<0.00100
Boron	--	--		mg/L	<0.100
Cadmium	0.005	--	0.005	mg/L	<0.00200
Calcium	--	--		mg/L	187
Chromium	0.1	--	0.1	mg/L	0.0128
Cobalt	--	--	0.006	mg/L	<b>0.215</b>
Copper	1.3	--	1.3	mg/L	0.324
Iron	--	0.3		mg/L	<b>6.10</b>
Lead	0.015	--	0.015	mg/L	<b>0.0368</b>
Lithium	--	--		mg/L	<b>0.0508</b>
Magnesium	--	--		mg/L	28.4
Manganese	--	0.05	0.43	mg/L	<b>0.437</b>
Molybdenum	--	--		mg/L	<0.0200
Nickel	--	--	0.39	mg/L	0.343
Phosphorus	--	--		mg/L	0.690
Potassium	--	--		mg/L	16.3
Selenium	0.05	--	0.05	mg/L	<0.00800
Silicon	--	--		mg/L	15.6
Silver	--	0.1	0.094	mg/L	<0.00400
Sodium	--	--		mg/L	4.04
Strontium	--	--		mg/L	<0.100
Thallium	0.002	--	0.002	mg/L	<0.0200
Tin	--	--		mg/L	<0.100
Titanium	--	--		mg/L	0.268
Vanadium	--	--	0.086	mg/L	<0.0500
Zinc	--	5	6	mg/L	0.150
<b>Anions</b>					
Bromide	--	--	--	mg/L	<0.200
Chloride	--	250	--	mg/L	<2.00
Fluoride	4	2	4	mg/L	0.280 m
Nitrogen, Nitrate	10	--	--	mg/L	<1.00
Nitrogen, Nitrite	1	--	--	mg/L	<1.00
Orthophosphate-P	--	--	--	mg/L	<0.200
Sulfate	--	250	--	mg/L	4.13
<b>Cyanide</b>					
Cyanide	0.2	--	0.2	mg/L	<0.0100 MB+

Notes:

Gray text signifies parameter was not detected at or above the concentration shown

**Bold** signifies concentration exceeding one or more of the comparison criteria

-- Criterion not established for this parameter

m = Manual Integration used to determine area response

MB+ = Analyte detected in the associated blank

MCL = U.S. EPA established Maximum Contaminant Levels for a public water system

SMCL = U.S. EPA established Secondary Maximum Contaminant Levels for a public water system

mg/L = milligrams per liter

TAL = Target Analyte List

VAP = Voluntary Action Program

Prepared By: RED

Checked By: LF

**Attachment 4**  
**Analytical Data Package**

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Summit Environmental Technologies, Inc.  
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Cuyahoga Falls, Ohio 44223  
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Website: <http://www.settek.com>

February 08, 2024

Russell Dornbusch  
WSP Global Inc  
521 Byers Rd.  
Suite 204  
Miamisburg, OH 45342  
TEL: (937) 859-3600  
FAX:

RE: 7775202021.03.\*\*\*\*\* (Revised)

Dear Russell Dornbusch:

Order No.: 24011575

Summit Environmental Technologies, Inc. received 34 sample(s) on 1/24/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Holly Florea  
Project Manager  
3310 Win St.  
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



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## Case Narrative

WO#: 24011575  
Date: 2/8/2024

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**CLIENT:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

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### WorkOrder Narrative:

This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

### Analytical Sequence Sample Notes:

24011575-001 through 003, 010-031 Mtl-ICP\_S(6010D): MB-72334 exhibited detection >1/2 PQL for Calcium. Sample exhibits detection >10x than the method blank for this analyte, so any potential contamination is considered to be insignificant.

24011575-008, 009, 023 Mtl-ICP\_Wipe(6010D): Potential high bias for Calcium due to detection in MB-72334. Detection in MB < RL.

24011575-008 Mtl-ICP\_Wipe(6010D): Potential high bias for Tin due to detection in MB-72334. Detection in MB < RL.

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Revision v2



## Case Narrative

WO#: 24011575  
Date: 2/8/2024

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**CLIENT:** WSP Global Inc

**Project:** 7775202021.03.\*\*\*\* (Revised)

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24011575-011 through 031 Mtl-ICP\_S(6010D): MB-72365 exhibited detection for Silicon. Sample detection > 10x MB so any potential contamination is considered insignificant.

24011575-011A Mtl-ICP\_S(6010D): Corresponding MS/MSD exhibited outlying recoveries and high RPD. LCS-72421 demonstrates control.

24011575-012A Mtl-ICP\_S(6010D): Corresponding MS/MSD exhibited outlying recoveries for several analytes. LCS-72365 demonstrates control. MB-72365 exhibited detection > 1/2 RLC for Calcium. Sample exhibits detection >10x than the method blank for this analyte, so any potential contamination is considered to be insignificant.

24011575-032, 034 Anions\_NPW(9056A): Ran at 2x dilution due to sample matrix.

24011575-032, 033 Cyanide,Total\_NPW(9014): MB exhibited detection > PQL for Cyanide, Total, sample is ND so any potential contamination is considered to be insignificant.

24011575-019A Cyanide,Total\_S(9014): Corresponding Spike recovery indicates matrix interference. The method is in control as indicated by the laboratory control sample (LCS).

24011575-010, 019, 028 PctMoist\_S(2540): Parent sample and DUP exhibited high RPD due to suspected sample inhomogeneity.

Revised report provided 2/8/2024.

-Lithium added

-sample ID corrected for 24011575-008



Summit Environmental Technologies, Inc.  
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**Workorder**  
**Sample Summary**  
 WO#: 24011575  
 08-Feb-24

**CLIENT:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24011575-001	SP-1-012224		1/22/2024 9:35:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-002	SP-2-012224		1/22/2024 9:50:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-003	SP-3-012224		1/22/2024 10:10:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-004	NWS-012224		1/22/2024 10:40:00 AM	1/24/2024 4:45:00 PM	Wipe
24011575-005	EWS-012224		1/22/2024 10:47:00 AM	1/24/2024 4:45:00 PM	Wipe
24011575-006	SWS-012224		1/22/2024 10:56:00 AM	1/24/2024 4:45:00 PM	Wipe
24011575-007	WWS-012224		1/22/2024 11:03:00 AM	1/24/2024 4:45:00 PM	Wipe
24011575-008	RVEWS-012224		1/22/2024 11:10:00 AM	1/24/2024 4:45:00 PM	Wipe
24011575-009	FBWS-012224		1/22/2024 11:15:00 AM	1/24/2024 4:45:00 PM	Wipe
24011575-010	BK1 (0-2)		1/23/2024 9:50:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-011	BK1 (2-4)		1/23/2024	1/24/2024 4:45:00 PM	Solid
24011575-012	SB1 (2-4)		1/23/2024 1:15:00 PM	1/24/2024 4:45:00 PM	Solid
24011575-013	SB2 (0-2)		1/23/2024 1:03:00 PM	1/24/2024 4:45:00 PM	Solid
24011575-014	SB2 (2-4)		1/23/2024 1:06:00 PM	1/24/2024 4:45:00 PM	Solid
24011575-015	SB3 (2-4)		1/23/2024 1:30:00 PM	1/24/2024 4:45:00 PM	Solid
24011575-016	SB4 (0-2)		1/23/2024 12:50:00 PM	1/24/2024 4:45:00 PM	Solid
24011575-017	SB4 (2-4)		1/23/2024 12:55:00 PM	1/24/2024 4:45:00 PM	Solid
24011575-018	SB5 (0-2)		1/23/2024 11:37:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-019	SB5 (0-2)R		1/23/2024 11:37:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-020	SB5 (2-4)		1/23/2024 11:40:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-021	SB6 (0-2)		1/23/2024 11:20:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-022	SB6 (2-4)		1/23/2024 11:23:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-023	SB7 (0-2)		1/23/2024 11:03:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-024	SB7 (2-4)		1/23/2024 11:07:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-025	SB8 (0-2)		1/23/2024 10:30:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-026	SB8 (2-4)		1/23/2024 10:35:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-027	SB8 (2-4)R		1/23/2024 10:35:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-028	SB9 (0-2)		1/23/2024 10:10:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-029	SB9 (2-4)		1/23/2024 10:14:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-030	SB10 (0-2)		1/23/2024 10:45:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-031	SB10 (2-4)		1/23/2024 10:50:00 AM	1/24/2024 4:45:00 PM	Solid
24011575-032	SW1-012324		1/23/2024 2:30:00 PM	1/24/2024 4:45:00 PM	Non-Potable Water



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**Workorder**  
**Sample Summary**  
 WO#: 24011575  
 08-Feb-24

**CLIENT:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24011575-032	SW1-012324		1/23/2024 2:30:00 PM	1/24/2024 4:45:00 PM	Non-Potable Water
24011575-032	SW1-012324		1/23/2024 2:30:00 PM	1/24/2024 4:45:00 PM	Non-Potable Water
24011575-033	EB001-012324		1/23/2024 12:45:00 PM	1/24/2024 4:45:00 PM	Non-Potable Water
24011575-033	EB001-012324		1/23/2024 12:45:00 PM	1/24/2024 4:45:00 PM	Non-Potable Water
24011575-033	EB001-012324		1/23/2024 12:45:00 PM	1/24/2024 4:45:00 PM	Non-Potable Water
24011575-034	WC1-012324		1/23/2024 2:20:00 PM	1/24/2024 4:45:00 PM	Non-Potable Water
24011575-034	WC1-012324		1/23/2024 2:20:00 PM	1/24/2024 4:45:00 PM	Non-Potable Water
24011575-034	WC1-012324		1/23/2024 2:20:00 PM	1/24/2024 4:45:00 PM	Non-Potable Water



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/22/2024 9:35:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-001 **Matrix:** SOLID  
**Client Sample ID:** SP-1-012224

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	11500	1380		mg/Kg-dry	50	1/30/2024 9:01:00 AM
Antimony	ND	2.76		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Arsenic	6.45	2.76		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Barium	62.0	5.52		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Beryllium	ND	0.552		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Boron	22.4	11.0		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Cadmium	ND	0.552		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Calcium	91000	1380	MB+	mg/Kg-dry	50	1/30/2024 9:01:00 AM
Chromium	10.7	2.76		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Cobalt	5.19	2.76		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Copper	13.7	8.84		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Iron	19400	552		mg/Kg-dry	50	1/30/2024 9:01:00 AM
Lead	16.9	2.76		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Lithium	ND	11.0		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Magnesium	47300	11000		mg/Kg-dry	1000	1/30/2024 9:41:00 AM
Manganese	404	2.76		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Molybdenum	ND	2.76		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Nickel	11.3	2.76		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Phosphorus	375	27.6		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Potassium	1250	55.2		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Selenium	ND	2.76		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Silicon	446	5.52		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Silver	ND	2.76		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Sodium	139	110		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Strontium	49.0	5.52		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Thallium	ND	1.10		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Tin	ND	5.52		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Titanium	139	5.52		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Vanadium	20.1	5.52		mg/Kg-dry	1	1/26/2024 4:36:00 PM
Zinc	55.1	2.76		mg/Kg-dry	1	1/26/2024 4:36:00 PM

<b>PAHS BY SW8270E</b>						
<b>SVOC 8270EPAH SIM</b>						
		<b>SW8270</b>	<b>SW3546</b>	Analyst: JDB		
Acenaphthene	ND	0.0487		mg/Kg-dry	1	1/25/2024 7:24:00 PM

Qualifiers:	B	H	ND	R	W	E	M	PL	RL
	Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	Not Detected	RPD outside accepted recovery limits	Sample container temperature is out of limit as specified at testcode	Value above quantitation range	Manual Integration used to determine area response	Permit Limit	Reporting Detection Limit



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/22/2024 9:35:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-001 **Matrix:** SOLID  
**Client Sample ID:** SP-1-012224

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0487		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Anthracene	ND	0.0487		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Benzo(a)anthracene	0.0647	0.0487		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Benzo(a)pyrene	0.0790	0.0487		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Benzo(b)fluoranthene	0.0638	0.0487		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Benzo(g,h,i)perylene	0.0578	0.0487		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Benzo(k)fluoranthene	ND	0.0487	m	mg/Kg-dry	1	1/25/2024 7:24:00 PM
Chrysene	0.0761	0.0487		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Dibenzo (a,h) anthracene	ND	0.0487		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Fluoranthene	0.158	0.0487		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Fluorene	ND	0.0487		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0487		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Naphthalene	ND	0.0244		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Phenanthrene	0.0930	0.0548		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Pyrene	0.124	0.0913		mg/Kg-dry	1	1/25/2024 7:24:00 PM
Surr: Nitrobenzene-d5	55.2	10 - 129		%Rec	1	1/25/2024 7:24:00 PM
Surr: 2-Fluorobiphenyl	53.8	10 - 122		%Rec	1	1/25/2024 7:24:00 PM
Surr: p-Terphenyl-d14	52.8	10 - 151		%Rec	1	1/25/2024 7:24:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>HDJ</b>
Cyanide, Total	ND	0.476		mg/Kg-dry	1	1/26/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	19.2	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/22/2024 9:50:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-002 **Matrix:** SOLID  
**Client Sample ID:** SP-2-012224

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>					<b>SW6010</b>	<b>SW3050B</b>
<b>METALS ANALYSIS (6010D)</b>						Analyst: RJE
Aluminum	13800	1380		mg/Kg-dry	50	1/30/2024 9:04:00 AM
Antimony	ND	2.76		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Arsenic	7.00	2.76		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Barium	62.7	5.52		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Beryllium	ND	0.552		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Boron	23.1	11.0		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Cadmium	ND	0.552		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Calcium	110000	1380	MB+	mg/Kg-dry	50	1/30/2024 9:04:00 AM
Chromium	11.1	2.76		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Cobalt	6.04	2.76		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Copper	15.5	8.84		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Iron	24000	552		mg/Kg-dry	50	1/30/2024 9:04:00 AM
Lead	16.4	2.76		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Lithium	11.1	11.0		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Magnesium	17600	11000		mg/Kg-dry	1000	1/30/2024 9:45:00 AM
Manganese	418	2.76		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Molybdenum	ND	2.76		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Nickel	13.0	2.76		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Phosphorus	333	27.6		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Potassium	1250	55.2		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Selenium	ND	2.76		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Silicon	406	5.52		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Silver	ND	2.76		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Sodium	116	110		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Strontium	73.0	5.52		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Thallium	ND	1.10		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Tin	ND	5.52		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Titanium	126	5.52		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Vanadium	21.4	5.52		mg/Kg-dry	1	1/26/2024 4:39:00 PM
Zinc	57.4	2.76		mg/Kg-dry	1	1/26/2024 4:39:00 PM

**PAHS BY SW8270E** **SW8270** **SW3546** Analyst: JDB  
**SVOC 8270EPAH SIM**

Acenaphthene	ND	0.0475		mg/Kg-dry	1	1/25/2024 7:57:00 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/22/2024 9:50:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-002 **Matrix:** SOLID  
**Client Sample ID:** SP-2-012224

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0475		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Anthracene	ND	0.0475		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Benzo(a)anthracene	0.0649	0.0475		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Benzo(a)pyrene	0.0923	0.0475		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Benzo(b)fluoranthene	0.0728	0.0475		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Benzo(g,h,i)perylene	0.0674	0.0475		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Benzo(k)fluoranthene	ND	0.0475	m	mg/Kg-dry	1	1/25/2024 7:57:00 PM
Chrysene	0.0772	0.0475		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Dibenzo (a,h) anthracene	ND	0.0475		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Fluoranthene	0.138	0.0475		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Fluorene	ND	0.0475		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0475		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Naphthalene	ND	0.0238		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Phenanthrene	0.0649	0.0535		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Pyrene	0.116	0.0891		mg/Kg-dry	1	1/25/2024 7:57:00 PM
Surr: Nitrobenzene-d5	58.6	10 - 129		%Rec	1	1/25/2024 7:57:00 PM
Surr: 2-Fluorobiphenyl	57.8	10 - 122		%Rec	1	1/25/2024 7:57:00 PM
Surr: p-Terphenyl-d14	58.7	10 - 151		%Rec	1	1/25/2024 7:57:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>HDJ</b>
Cyanide, Total	ND	0.552		mg/Kg-dry	1	1/26/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	17.7	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/22/2024 10:10:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-003 **Matrix:** SOLID  
**Client Sample ID:** SP-3-012224

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>					<b>SW6010</b>	<b>SW3050B</b> Analyst: RJE
<b>METALS ANALYSIS (6010D)</b>						
Aluminum	11600	1260		mg/Kg-dry	50	1/30/2024 9:08:00 AM
Antimony	ND	2.51		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Arsenic	5.97	2.51		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Barium	60.0	5.03		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Beryllium	ND	0.503		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Boron	21.2	10.1		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Cadmium	ND	0.503		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Calcium	87900	1260	MB+	mg/Kg-dry	50	1/30/2024 9:08:00 AM
Chromium	10.3	2.51		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Cobalt	4.77	2.51		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Copper	13.0	8.04		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Iron	19600	503		mg/Kg-dry	50	1/30/2024 9:08:00 AM
Lead	15.1	2.51		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Lithium	10.3	10.1		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Magnesium	35000	10100		mg/Kg-dry	1000	1/30/2024 9:48:00 AM
Manganese	338	2.51		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Molybdenum	ND	2.51		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Nickel	11.1	2.51		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Phosphorus	347	25.1		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Potassium	1180	50.3		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Selenium	ND	2.51		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Silicon	389	5.03		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Silver	ND	2.51		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Sodium	123	101		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Strontium	60.2	5.03		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Thallium	ND	1.01		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Tin	ND	5.03		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Titanium	128	5.03		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Vanadium	18.9	5.03		mg/Kg-dry	1	1/26/2024 4:43:00 PM
Zinc	52.2	2.51		mg/Kg-dry	1	1/26/2024 4:43:00 PM

**PAHS BY SW8270E** **SW8270** **SW3546** Analyst: JDB  
**SVOC 8270EPAH SIM**

Acenaphthene	ND	0.0455		mg/Kg-dry	1	1/25/2024 8:31:00 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/22/2024 10:10:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-003 **Matrix:** SOLID  
**Client Sample ID:** SP-3-012224

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0455		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Anthracene	ND	0.0455		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Benzo(a)anthracene	0.100	0.0455		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Benzo(a)pyrene	0.135	0.0455		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Benzo(b)fluoranthene	0.108	0.0455		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Benzo(g,h,i)perylene	0.0870	0.0455		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Benzo(k)fluoranthene	0.0595	0.0455	m	mg/Kg-dry	1	1/25/2024 8:31:00 PM
Chrysene	0.123	0.0455		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Dibenzo (a,h) anthracene	ND	0.0455		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Fluoranthene	0.209	0.0455		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Fluorene	ND	0.0455		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Indeno(1,2,3-cd)pyrene	0.0642	0.0455		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Naphthalene	ND	0.0228		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Phenanthrene	0.107	0.0512		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Pyrene	0.181	0.0854		mg/Kg-dry	1	1/25/2024 8:31:00 PM
Surr: Nitrobenzene-d5	63.0	10 - 129		%Rec	1	1/25/2024 8:31:00 PM
Surr: 2-Fluorobiphenyl	61.6	10 - 122		%Rec	1	1/25/2024 8:31:00 PM
Surr: p-Terphenyl-d14	61.1	10 - 151		%Rec	1	1/25/2024 8:31:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>HDJ</b>
Cyanide, Total	ND	0.525		mg/Kg-dry	1	1/26/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	13.5	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/22/2024 10:40:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-004 **Matrix:** WIPE  
**Client Sample ID:** NWS-012224

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>METALS ANALYSIS (6010)</b>					<b>SW6010</b>	<b>SW3050B</b> Analyst: RJE
Aluminum	2.35	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Antimony	0.0351	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Arsenic	ND	0.0100		mg/wipe	1	1/26/2024 4:46:00 PM
Barium	ND	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Beryllium	ND	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Boron	0.0119	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Cadmium	ND	0.0100		mg/wipe	1	1/26/2024 4:46:00 PM
Calcium	4.97	0.250	MB+	mg/wipe	50	1/30/2024 9:18:00 AM
Chromium	ND	0.0100		mg/wipe	1	1/26/2024 4:46:00 PM
Cobalt	1.26	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Copper	0.169	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Iron	0.292	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Lead	ND	0.0100		mg/wipe	1	1/26/2024 4:46:00 PM
Lithium	ND	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Magnesium	0.124	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Manganese	1.26	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Molybdenum	ND	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Nickel	5.41	0.250		mg/wipe	50	1/30/2024 9:18:00 AM
Phosphorus	0.462	0.0500		mg/wipe	1	1/26/2024 4:46:00 PM
Potassium	ND	0.100		mg/wipe	1	1/26/2024 4:46:00 PM
Selenium	ND	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Silicon	0.443	0.100		mg/wipe	1	1/26/2024 4:46:00 PM
Silver	ND	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Sodium	ND	1.00		mg/wipe	1	1/26/2024 4:46:00 PM
Strontium	ND	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Thallium	ND	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Tin	ND	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Titanium	ND	0.0500		mg/wipe	1	1/26/2024 4:46:00 PM
Vanadium	ND	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM
Zinc	0.0331	0.00500		mg/wipe	1	1/26/2024 4:46:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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 Website: <http://www.settek.com>

# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc

**Collection Date:** 1/22/2024 10:47:00 AM

**Project:** 7775202021.03.\*\*\*\* (Revised)

**Lab ID:** 24011575-005

**Matrix:** WIPE

**Client Sample ID:** EWS-012224

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>METALS ANALYSIS (6010)</b>					<b>SW6010</b>	<b>SW3050B</b> Analyst: RJE
Aluminum	0.586	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Antimony	0.0207	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Arsenic	ND	0.0100		mg/wipe	1	1/26/2024 4:49:00 PM
Barium	ND	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Beryllium	ND	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Boron	ND	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Cadmium	ND	0.0100		mg/wipe	1	1/26/2024 4:49:00 PM
Calcium	4.70	0.250	MB+	mg/wipe	50	1/30/2024 9:21:00 AM
Chromium	ND	0.0100		mg/wipe	1	1/26/2024 4:49:00 PM
Cobalt	0.301	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Copper	0.0556	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Iron	0.292	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Lead	ND	0.0100		mg/wipe	1	1/26/2024 4:49:00 PM
Lithium	0.168	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Magnesium	0.106	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Manganese	0.325	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Molybdenum	ND	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Nickel	0.920	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Phosphorus	0.265	0.0500		mg/wipe	1	1/26/2024 4:49:00 PM
Potassium	ND	0.100		mg/wipe	1	1/26/2024 4:49:00 PM
Selenium	ND	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Silicon	0.398	0.100		mg/wipe	1	1/26/2024 4:49:00 PM
Silver	ND	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Sodium	ND	1.00		mg/wipe	1	1/26/2024 4:49:00 PM
Strontium	ND	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Thallium	ND	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Tin	ND	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Titanium	ND	0.0500		mg/wipe	1	1/26/2024 4:49:00 PM
Vanadium	ND	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM
Zinc	0.0120	0.00500		mg/wipe	1	1/26/2024 4:49:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/22/2024 10:56:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-006 **Matrix:** WIPE  
**Client Sample ID:** SWS-012224

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>METALS ANALYSIS (6010)</b>					<b>SW6010</b>	<b>SW3050B</b> Analyst: RJE
Aluminum	1.82	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Antimony	0.0391	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Arsenic	ND	0.0100		mg/wipe	1	1/26/2024 4:53:00 PM
Barium	ND	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Beryllium	ND	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Boron	ND	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Cadmium	ND	0.0100		mg/wipe	1	1/26/2024 4:53:00 PM
Calcium	4.33	0.250	MB+	mg/wipe	50	1/30/2024 9:25:00 AM
Chromium	ND	0.0100		mg/wipe	1	1/26/2024 4:53:00 PM
Cobalt	1.01	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Copper	0.150	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Iron	0.297	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Lead	ND	0.0100		mg/wipe	1	1/26/2024 4:53:00 PM
Lithium	ND	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Magnesium	0.113	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Manganese	1.82	0.250		mg/wipe	50	1/30/2024 9:25:00 AM
Molybdenum	ND	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Nickel	ND	0.250		mg/wipe	50	1/30/2024 9:25:00 AM
Phosphorus	0.537	0.0500		mg/wipe	1	1/26/2024 4:53:00 PM
Potassium	ND	0.100		mg/wipe	1	1/26/2024 4:53:00 PM
Selenium	ND	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Silicon	0.446	0.100		mg/wipe	1	1/26/2024 4:53:00 PM
Silver	ND	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Sodium	ND	1.00		mg/wipe	1	1/26/2024 4:53:00 PM
Strontium	ND	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Thallium	ND	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Tin	ND	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Titanium	ND	0.0500		mg/wipe	1	1/26/2024 4:53:00 PM
Vanadium	ND	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM
Zinc	0.0273	0.00500		mg/wipe	1	1/26/2024 4:53:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/22/2024 11:03:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-007 **Matrix:** WIPE  
**Client Sample ID:** WWS-012224

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>METALS ANALYSIS (6010)</b>					<b>SW6010</b>	<b>SW3050B</b> Analyst: RJE
Aluminum	10.7	0.250		mg/wipe	50	1/30/2024 9:28:00 AM
Antimony	0.0838	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Arsenic	ND	0.0100		mg/wipe	1	1/26/2024 4:56:00 PM
Barium	0.0160	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Beryllium	ND	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Boron	0.0275	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Cadmium	ND	0.0100		mg/wipe	1	1/26/2024 4:56:00 PM
Calcium	7.58	0.250	MB+	mg/wipe	50	1/30/2024 9:28:00 AM
Chromium	0.0112	0.0100		mg/wipe	1	1/26/2024 4:56:00 PM
Cobalt	5.18	0.250		mg/wipe	50	1/30/2024 9:28:00 AM
Copper	0.628	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Iron	0.726	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Lead	ND	0.0100		mg/wipe	1	1/26/2024 4:56:00 PM
Lithium	ND	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Magnesium	0.343	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Manganese	5.95	0.250		mg/wipe	50	1/30/2024 9:28:00 AM
Molybdenum	ND	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Nickel	13.7	0.250		mg/wipe	50	1/30/2024 9:28:00 AM
Phosphorus	2.23	0.0500		mg/wipe	1	1/26/2024 4:56:00 PM
Potassium	ND	0.100		mg/wipe	1	1/26/2024 4:56:00 PM
Selenium	ND	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Silicon	0.695	0.100		mg/wipe	1	1/26/2024 4:56:00 PM
Silver	ND	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Sodium	ND	1.00		mg/wipe	1	1/26/2024 4:56:00 PM
Strontium	ND	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Thallium	ND	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Tin	ND	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Titanium	0.0802	0.0500		mg/wipe	1	1/26/2024 4:56:00 PM
Vanadium	ND	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM
Zinc	0.0849	0.00500		mg/wipe	1	1/26/2024 4:56:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/22/2024 11:10:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-008 **Matrix:** WIPE  
**Client Sample ID:** RVEWS-012224

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>METALS ANALYSIS (6010)</b>				<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE
Aluminum	8.08	0.250		mg/wipe	50	1/30/2024 9:31:00 AM
Antimony	0.252	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Arsenic	ND	0.0100		mg/wipe	1	1/26/2024 5:10:00 PM
Barium	0.0155	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Beryllium	ND	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Boron	0.200	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Cadmium	ND	0.0100		mg/wipe	1	1/26/2024 5:10:00 PM
Calcium	0.415	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Chromium	0.0732	0.0100		mg/wipe	1	1/26/2024 5:10:00 PM
Cobalt	7.32	0.250		mg/wipe	50	1/30/2024 9:31:00 AM
Copper	1.16	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Iron	182	5.00		mg/wipe	1000	1/30/2024 10:12:00 AM
Lead	ND	0.0100		mg/wipe	1	1/26/2024 5:10:00 PM
Lithium	ND	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Magnesium	0.102	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Manganese	9.10	0.250		mg/wipe	50	1/30/2024 9:31:00 AM
Molybdenum	ND	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Nickel	19.0	0.250		mg/wipe	50	1/30/2024 9:31:00 AM
Phosphorus	15.8	2.50		mg/wipe	50	1/30/2024 9:31:00 AM
Potassium	ND	0.100		mg/wipe	1	1/26/2024 5:10:00 PM
Selenium	ND	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Silicon	1.01	0.100		mg/wipe	1	1/26/2024 5:10:00 PM
Silver	ND	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Sodium	ND	1.00		mg/wipe	1	1/26/2024 5:10:00 PM
Strontium	ND	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Thallium	ND	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Tin	0.0387	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Titanium	ND	0.0500		mg/wipe	1	1/26/2024 5:10:00 PM
Vanadium	ND	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM
Zinc	0.123	0.00500		mg/wipe	1	1/26/2024 5:10:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc

**Collection Date:** 1/22/2024 11:15:00 AM

**Project:** 7775202021.03.\*\*\*\* (Revised)

**Lab ID:** 24011575-009

**Matrix:** WIPE

**Client Sample ID:** FBWS-012224

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>METALS ANALYSIS (6010)</b>					<b>SW6010</b>	<b>SW3050B</b> Analyst: RJE
Aluminum	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Antimony	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Arsenic	ND	0.0100		mg/wipe	1	1/26/2024 5:13:00 PM
Barium	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Beryllium	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Boron	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Cadmium	ND	0.0100		mg/wipe	1	1/26/2024 5:13:00 PM
Calcium	0.0447	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Chromium	ND	0.0100		mg/wipe	1	1/26/2024 5:13:00 PM
Cobalt	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Copper	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Iron	0.0222	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Lead	ND	0.0100		mg/wipe	1	1/26/2024 5:13:00 PM
Lithium	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Magnesium	0.0306	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Manganese	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Molybdenum	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Nickel	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Phosphorus	ND	0.0500		mg/wipe	1	1/26/2024 5:13:00 PM
Potassium	ND	0.100		mg/wipe	1	1/26/2024 5:13:00 PM
Selenium	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Silicon	ND	0.100		mg/wipe	1	1/26/2024 5:13:00 PM
Silver	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Sodium	ND	1.00		mg/wipe	1	1/26/2024 5:13:00 PM
Strontium	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Thallium	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Tin	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Titanium	ND	0.0500		mg/wipe	1	1/26/2024 5:13:00 PM
Vanadium	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM
Zinc	ND	0.00500		mg/wipe	1	1/26/2024 5:13:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 9:50:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-010 **Matrix:** SOLID  
**Client Sample ID:** BK1 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	8500	1190		mg/Kg-dry	50	1/30/2024 9:38:00 AM
Antimony	ND	2.39		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Arsenic	3.73	2.39		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Barium	29.1	4.78		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Beryllium	ND	0.478		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Boron	21.0	9.55		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Cadmium	ND	0.478		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Calcium	120000	23900	MB+	mg/Kg-dry	1000	1/30/2024 10:19:00 AM
Chromium	8.32	2.39		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Cobalt	4.68	2.39		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Copper	8.55	7.64		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Iron	18400	478		mg/Kg-dry	50	1/30/2024 9:38:00 AM
Lead	4.45	2.39		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Lithium	13.4	9.55		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Magnesium	30500	9550		mg/Kg-dry	1000	1/30/2024 10:19:00 AM
Manganese	1030	119		mg/Kg-dry	50	1/30/2024 9:38:00 AM
Molybdenum	ND	2.39		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Nickel	11.4	2.39		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Phosphorus	331	23.9		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Potassium	1210	47.8		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Selenium	ND	2.39		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Silicon	220	4.78	MB+	mg/Kg-dry	1	1/26/2024 5:16:00 PM
Silver	ND	2.39		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Sodium	112	95.5		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Strontium	75.6	4.78		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Thallium	ND	0.955		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Tin	ND	4.78		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Titanium	83.8	4.78		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Vanadium	12.1	4.78		mg/Kg-dry	1	1/26/2024 5:16:00 PM
Zinc	39.9	2.39		mg/Kg-dry	1	1/26/2024 5:16:00 PM

<b>PAHS BY SW8270E</b>						
<b>SVOC 8270EPAH SIM</b>						
		<b>SW8270</b>	<b>SW3546</b>	Analyst: JDB		
Acenaphthene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM

Qualifiers:	B	H	ND	R	W	E	M	PL	RL
	Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	Not Detected	RPD outside accepted recovery limits	Sample container temperature is out of limit as specified at testcode	Value above quantitation range	Manual Integration used to determine area response	Permit Limit	Reporting Detection Limit



Summit Environmental Technologies, Inc.  
 3310 Win St.  
 Cuyahoga Falls, Ohio 44223  
 TEL: (330) 253-8211 FAX: (330) 253-4489  
 Website: <http://www.settek.com>

# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 9:50:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-010 **Matrix:** SOLID  
**Client Sample ID:** BK1 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Anthracene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Benzo(a)anthracene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Benzo(a)pyrene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Benzo(b)fluoranthene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Benzo(g,h,i)perylene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Benzo(k)fluoranthene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Chrysene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Dibenzo (a,h) anthracene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Fluoranthene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Fluorene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0437		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Naphthalene	ND	0.0219		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Phenanthrene	ND	0.0492		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Pyrene	ND	0.0820		mg/Kg-dry	1	1/25/2024 9:04:00 PM
Surr: Nitrobenzene-d5	64.6	10 - 129		%Rec	1	1/25/2024 9:04:00 PM
Surr: 2-Fluorobiphenyl	62.3	10 - 122		%Rec	1	1/25/2024 9:04:00 PM
Surr: p-Terphenyl-d14	65.7	10 - 151		%Rec	1	1/25/2024 9:04:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>HDJ</b>
Cyanide, Total	ND	0.423		mg/Kg-dry	1	1/26/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	8.99	0.100	QDR	%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-011 **Matrix:** SOLID  
**Client Sample ID:** BK1 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>					<b>SW6010</b>	<b>SW3050B</b> Analyst: RJE
<b>METALS ANALYSIS (6010D)</b>						
Aluminum	9780	1170		mg/Kg-dry	50	1/30/2024 1:50:00 PM
Antimony	ND	2.34	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Arsenic	5.72	2.34		mg/Kg-dry	1	1/29/2024 9:45:00 AM
Barium	28.1	4.67		mg/Kg-dry	1	1/29/2024 9:45:00 AM
Beryllium	ND	0.467		mg/Kg-dry	1	1/29/2024 9:45:00 AM
Boron	14.3	9.34		mg/Kg-dry	1	1/29/2024 9:45:00 AM
Cadmium	ND	0.467	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Calcium	158000	23400		mg/Kg-dry	1000	1/30/2024 3:59:00 PM
Chromium	7.62	2.34	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Cobalt	3.20	2.34	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Copper	9.60	7.48		mg/Kg-dry	1	1/29/2024 9:45:00 AM
Iron	20100	467		mg/Kg-dry	50	1/30/2024 1:50:00 PM
Lead	5.60	2.34	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Lithium	ND	9.34		mg/Kg-dry	1	1/29/2024 9:45:00 AM
Magnesium	37300	9340		mg/Kg-dry	1000	1/30/2024 3:59:00 PM
Manganese	265	2.34	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Molybdenum	ND	2.34		mg/Kg-dry	1	1/29/2024 9:45:00 AM
Nickel	8.23	2.34	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Phosphorus	191	23.4	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Potassium	1030	46.7	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Selenium	ND	2.34	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Silicon	441	4.67	B+QL+Q	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Silver	ND	2.34	QM+	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Sodium	121	93.4	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Strontium	71.5	4.67	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Thallium	ND	0.934	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Tin	ND	4.67	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Titanium	116	4.67	QM-QMR	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Vanadium	13.5	4.67	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM
Zinc	33.3	2.34	QM-	mg/Kg-dry	1	1/29/2024 9:45:00 AM

<b>PAHS BY SW8270E</b>					<b>SW8270</b>	<b>SW3546</b> Analyst: JDB
<b>SVOC 8270EPAH SIM</b>						
Acenaphthene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM

Qualifiers:	B	H	ND	R	W	E	M	PL	RL
	Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	Not Detected	RPD outside accepted recovery limits	Sample container temperature is out of limit as specified at testcode	Value above quantitation range	Manual Integration used to determine area response	Permit Limit	Reporting Detection Limit



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-011 **Matrix:** SOLID  
**Client Sample ID:** BK1 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Anthracene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Benzo(a)anthracene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Benzo(a)pyrene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Benzo(b)fluoranthene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Benzo(g,h,i)perylene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Benzo(k)fluoranthene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Chrysene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Dibenzo (a,h) anthracene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Fluoranthene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Fluorene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0432		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Naphthalene	ND	0.0216		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Phenanthrene	ND	0.0485		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Pyrene	ND	0.0809		mg/Kg-dry	1	1/26/2024 12:19:00 AM
Surr: Nitrobenzene-d5	56.6	10 - 129		%Rec	1	1/26/2024 12:19:00 AM
Surr: 2-Fluorobiphenyl	61.0	10 - 122		%Rec	1	1/26/2024 12:19:00 AM
Surr: p-Terphenyl-d14	53.8	10 - 151		%Rec	1	1/26/2024 12:19:00 AM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>HDJ</b>
Cyanide, Total	ND	0.547		mg/Kg-dry	1	1/26/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	8.54	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 1:15:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-012 **Matrix:** SOLID  
**Client Sample ID:** SB1 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>					<b>SW6010</b>	<b>SW3050B</b>
<b>METALS ANALYSIS (6010D)</b>						Analyst: RJE
Aluminum	15500	1410		mg/Kg-dry	50	1/30/2024 6:32:00 PM
Antimony	ND	2.81	QM-	mg/Kg-dry	1	1/26/2024 5:33:00 PM
Arsenic	8.03	2.81		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Barium	65.9	5.62		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Beryllium	0.585	0.562		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Boron	30.5	11.2		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Cadmium	ND	0.562	QM-	mg/Kg-dry	1	1/26/2024 5:33:00 PM
Calcium	89400	1410	MB+	mg/Kg-dry	50	1/30/2024 6:32:00 PM
Chromium	13.7	2.81		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Cobalt	5.75	2.81	QM-	mg/Kg-dry	1	1/26/2024 5:33:00 PM
Copper	15.6	9.00		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Iron	24600	562		mg/Kg-dry	50	1/30/2024 6:32:00 PM
Lead	8.98	2.81	QM-	mg/Kg-dry	1	1/26/2024 5:33:00 PM
Lithium	17.3	11.2		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Magnesium	36200	11200		mg/Kg-dry	1000	1/30/2024 7:53:00 PM
Manganese	378	2.81		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Molybdenum	ND	2.81		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Nickel	17.0	2.81		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Phosphorus	272	28.1	QM-	mg/Kg-dry	1	1/26/2024 5:33:00 PM
Potassium	1920	56.2	QM-	mg/Kg-dry	1	1/26/2024 5:33:00 PM
Selenium	ND	2.81	QM-	mg/Kg-dry	1	1/26/2024 5:33:00 PM
Silicon	373	5.62	MB+QMR	mg/Kg-dry	1	1/26/2024 5:33:00 PM
Silver	ND	2.81	QM+	mg/Kg-dry	1	1/26/2024 5:33:00 PM
Sodium	125	112	QM-	mg/Kg-dry	1	1/26/2024 5:33:00 PM
Strontium	124	5.62	QM-	mg/Kg-dry	1	1/26/2024 5:33:00 PM
Thallium	ND	1.12	QM-	mg/Kg-dry	1	1/26/2024 5:33:00 PM
Tin	ND	5.62		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Titanium	189	5.62		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Vanadium	25.1	5.62		mg/Kg-dry	1	1/26/2024 5:33:00 PM
Zinc	57.0	2.81		mg/Kg-dry	1	1/26/2024 5:33:00 PM

PAHS BY SW8270E					SW8270	SW3546	Analyst: JDB
SVOC 8270EPAH SIM							
Acenaphthene	ND	0.0463		mg/Kg-dry	1		1/25/2024 11:18:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 1:15:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-012 **Matrix:** SOLID  
**Client Sample ID:** SB1 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0463		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Anthracene	ND	0.0463		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Benzo(a)anthracene	ND	0.0463		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Benzo(a)pyrene	ND	0.0463		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Benzo(b)fluoranthene	ND	0.0463		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Benzo(g,h,i)perylene	ND	0.0463		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Benzo(k)fluoranthene	ND	0.0463		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Chrysene	ND	0.0463		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Dibenzo (a,h) anthracene	ND	0.0463		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Fluoranthene	ND	0.0463		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Fluorene	ND	0.0463		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0463		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Naphthalene	ND	0.0231		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Phenanthrene	ND	0.0521		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Pyrene	ND	0.0868		mg/Kg-dry	1	1/25/2024 11:18:00 PM
Surr: Nitrobenzene-d5	61.2	10 - 129		%Rec	1	1/25/2024 11:18:00 PM
Surr: 2-Fluorobiphenyl	61.9	10 - 122		%Rec	1	1/25/2024 11:18:00 PM
Surr: p-Terphenyl-d14	62.6	10 - 151		%Rec	1	1/25/2024 11:18:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>HDJ</b>
Cyanide, Total	ND	0.541		mg/Kg-dry	1	1/26/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	14.5	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 1:03:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-013 **Matrix:** SOLID  
**Client Sample ID:** SB2 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	6690	1270		mg/Kg-dry	50	1/30/2024 6:42:00 PM
Antimony	ND	2.54		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Arsenic	5.42	2.54		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Barium	35.4	5.09		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Beryllium	ND	0.509		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Boron	19.4	10.2		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Cadmium	ND	0.509		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Calcium	114000	25400	MB+	mg/Kg-dry	1000	1/30/2024 8:03:00 PM
Chromium	7.84	2.54		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Cobalt	6.22	2.54		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Copper	13.1	8.14		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Iron	12700	509		mg/Kg-dry	50	1/30/2024 6:42:00 PM
Lead	6.90	2.54		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Lithium	ND	10.2		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Magnesium	49300	10200		mg/Kg-dry	1000	1/30/2024 8:03:00 PM
Manganese	232	2.54		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Molybdenum	ND	2.54		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Nickel	14.4	2.54		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Phosphorus	192	25.4		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Potassium	997	50.9		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Selenium	ND	2.54		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Silicon	264	5.09	MB+	mg/Kg-dry	1	1/26/2024 5:54:00 PM
Silver	ND	2.54		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Sodium	128	102		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Strontium	64.3	5.09		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Thallium	ND	1.02		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Tin	ND	5.09		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Titanium	107	5.09		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Vanadium	13.3	5.09		mg/Kg-dry	1	1/26/2024 5:54:00 PM
Zinc	33.0	2.54		mg/Kg-dry	1	1/26/2024 5:54:00 PM
<b>PAHS BY SW8270E</b>						
<b>SVOC 8270EPAH SIM</b>						
		<b>SW8270</b>	<b>SW3546</b>	Analyst: JDB		
Acenaphthene	ND	0.0442		mg/Kg-dry	1	1/25/2024 11:51:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 1:03:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-013 **Matrix:** SOLID  
**Client Sample ID:** SB2 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0442		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Anthracene	ND	0.0442		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Benzo(a)anthracene	ND	0.0442		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Benzo(a)pyrene	ND	0.0442		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Benzo(b)fluoranthene	ND	0.0442		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Benzo(g,h,i)perylene	ND	0.0442		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Benzo(k)fluoranthene	ND	0.0442	m	mg/Kg-dry	1	1/25/2024 11:51:00 PM
Chrysene	ND	0.0442		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Dibenzo (a,h) anthracene	ND	0.0442		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Fluoranthene	ND	0.0442		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Fluorene	ND	0.0442		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0442		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Naphthalene	ND	0.0221		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Phenanthrene	ND	0.0498		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Pyrene	ND	0.0829		mg/Kg-dry	1	1/25/2024 11:51:00 PM
Surr: Nitrobenzene-d5	61.0	10 - 129		%Rec	1	1/25/2024 11:51:00 PM
Surr: 2-Fluorobiphenyl	60.9	10 - 122		%Rec	1	1/25/2024 11:51:00 PM
Surr: p-Terphenyl-d14	60.2	10 - 151		%Rec	1	1/25/2024 11:51:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>HDJ</b>
Cyanide, Total	ND	0.466		mg/Kg-dry	1	1/26/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	10.7	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



Summit Environmental Technologies, Inc.  
 3310 Win St.  
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 Website: <http://www.settek.com>

# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 1:06:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-014 **Matrix:** SOLID  
**Client Sample ID:** SB2 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>					<b>SW6010</b>	<b>SW3050B</b>
<b>METALS ANALYSIS (6010D)</b>						Analyst: RJE
Aluminum	12000	1410		mg/Kg-dry	50	1/30/2024 6:45:00 PM
Antimony	ND	2.81		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Arsenic	5.50	2.81		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Barium	50.9	5.63		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Beryllium	ND	0.563		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Boron	19.1	11.3		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Cadmium	ND	0.563		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Calcium	34100	1410	MB+	mg/Kg-dry	50	1/30/2024 6:45:00 PM
Chromium	11.4	2.81		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Cobalt	6.52	2.81		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Copper	9.27	9.00		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Iron	17000	563		mg/Kg-dry	50	1/30/2024 6:45:00 PM
Lead	7.62	2.81		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Lithium	ND	11.3		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Magnesium	16600	563		mg/Kg-dry	50	1/30/2024 6:45:00 PM
Manganese	177	2.81		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Molybdenum	ND	2.81		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Nickel	10.6	2.81		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Phosphorus	248	28.1		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Potassium	979	56.3		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Selenium	ND	2.81		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Silicon	337	5.63	MB+	mg/Kg-dry	1	1/27/2024 7:45:00 AM
Silver	ND	2.81		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Sodium	ND	113		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Strontium	24.2	5.63		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Thallium	ND	1.13		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Tin	ND	5.63		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Titanium	157	5.63		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Vanadium	22.0	5.63		mg/Kg-dry	1	1/27/2024 7:45:00 AM
Zinc	37.3	2.81		mg/Kg-dry	1	1/27/2024 7:45:00 AM

<b>PAHS BY SW8270E</b>					<b>SW8270</b>	<b>SW3546</b>
<b>SVOC 8270EPAH SIM</b>						Analyst: JDB
Acenaphthene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM

Qualifiers:	B	H	ND	R	W	E	M	PL	RL
	Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	Not Detected	RPD outside accepted recovery limits	Sample container temperature is out of limit as specified at testcode	Value above quantitation range	Manual Integration used to determine area response	Permit Limit	Reporting Detection Limit



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 1:06:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-014 **Matrix:** SOLID  
**Client Sample ID:** SB2 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Anthracene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Benzo(a)anthracene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Benzo(a)pyrene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Benzo(b)fluoranthene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Benzo(g,h,i)perylene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Benzo(k)fluoranthene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Chrysene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Dibenzo (a,h) anthracene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Fluoranthene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Fluorene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0465		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Naphthalene	ND	0.0233		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Phenanthrene	ND	0.0523		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Pyrene	ND	0.0872		mg/Kg-dry	1	1/26/2024 12:24:00 AM
Surr: Nitrobenzene-d5	55.2	10 - 129		%Rec	1	1/26/2024 12:24:00 AM
Surr: 2-Fluorobiphenyl	53.7	10 - 122		%Rec	1	1/26/2024 12:24:00 AM
Surr: p-Terphenyl-d14	56.8	10 - 151		%Rec	1	1/26/2024 12:24:00 AM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>HDJ</b>
Cyanide, Total	ND	0.552		mg/Kg-dry	1	1/26/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	14.6	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 1:30:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-015 **Matrix:** SOLID  
**Client Sample ID:** SB3 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	3100	24.4		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Antimony	ND	2.44		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Arsenic	3.40	2.44		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Barium	17.1	4.88		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Beryllium	ND	0.488		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Boron	15.8	9.76		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Cadmium	ND	0.488		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Calcium	141000	24400	MB+	mg/Kg-dry	1000	1/30/2024 8:10:00 PM
Chromium	4.72	2.44		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Cobalt	ND	2.44		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Copper	ND	7.81		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Iron	9550	488		mg/Kg-dry	50	1/30/2024 6:49:00 PM
Lead	3.54	2.44		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Lithium	ND	9.76		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Magnesium	50500	9760		mg/Kg-dry	1000	1/30/2024 8:10:00 PM
Manganese	159	2.44		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Molybdenum	ND	2.44		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Nickel	5.21	2.44		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Phosphorus	118	24.4		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Potassium	718	48.8		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Selenium	ND	2.44		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Silicon	209	4.88	MB+	mg/Kg-dry	1	1/27/2024 7:48:00 AM
Silver	ND	2.44		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Sodium	136	97.6		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Strontium	66.1	4.88		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Thallium	ND	0.976		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Tin	ND	4.88		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Titanium	50.3	4.88		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Vanadium	8.38	4.88		mg/Kg-dry	1	1/27/2024 7:48:00 AM
Zinc	20.1	2.44		mg/Kg-dry	1	1/27/2024 7:48:00 AM

<b>PAHS BY SW8270E</b>						
<b>SVOC 8270EPAH SIM</b>						
		<b>SW8270</b>	<b>SW3546</b>	Analyst: JDB		
Acenaphthene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM

Qualifiers:	B	H	ND	R	W	E	M	PL	RL
	Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	Not Detected	RPD outside accepted recovery limits	Sample container temperature is out of limit as specified at testcode	Value above quantitation range	Manual Integration used to determine area response	Permit Limit	Reporting Detection Limit



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 1:30:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-015 **Matrix:** SOLID  
**Client Sample ID:** SB3 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Anthracene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Benzo(a)anthracene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Benzo(a)pyrene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Benzo(b)fluoranthene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Benzo(g,h,i)perylene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Benzo(k)fluoranthene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Chrysene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Dibenzo (a,h) anthracene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Fluoranthene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Fluorene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0416		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Naphthalene	ND	0.0208		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Phenanthrene	ND	0.0468		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Pyrene	ND	0.0779		mg/Kg-dry	1	1/26/2024 12:58:00 AM
Surr: Nitrobenzene-d5	65.5	10 - 129		%Rec	1	1/26/2024 12:58:00 AM
Surr: 2-Fluorobiphenyl	65.2	10 - 122		%Rec	1	1/26/2024 12:58:00 AM
Surr: p-Terphenyl-d14	65.5	10 - 151		%Rec	1	1/26/2024 12:58:00 AM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>HDJ</b>
Cyanide, Total	ND	0.329		mg/Kg-dry	1	1/26/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	5.10	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 12:50:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-016 **Matrix:** SOLID  
**Client Sample ID:** SB4 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	2530	22.9		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Antimony	ND	2.29		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Arsenic	3.30	2.29		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Barium	48.6	4.59		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Beryllium	ND	0.459		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Boron	21.6	9.18		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Cadmium	ND	0.459		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Calcium	189000	22900	MB+	mg/Kg-dry	1000	1/30/2024 8:13:00 PM
Chromium	4.60	2.29		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Cobalt	4.40	2.29		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Copper	9.31	7.34		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Iron	7450	459		mg/Kg-dry	50	1/30/2024 6:52:00 PM
Lead	6.06	2.29		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Lithium	ND	9.18		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Magnesium	75800	9180		mg/Kg-dry	1000	1/30/2024 8:13:00 PM
Manganese	200	2.29		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Molybdenum	ND	2.29		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Nickel	14.4	2.29		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Phosphorus	488	22.9		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Potassium	1430	45.9		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Selenium	ND	2.29		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Silicon	230	4.59	BMB+	mg/Kg-dry	1	1/27/2024 7:52:00 AM
Silver	ND	2.29		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Sodium	155	91.8		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Strontium	55.9	4.59		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Thallium	ND	0.918		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Tin	ND	4.59		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Titanium	13.1	4.59		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Vanadium	5.64	4.59		mg/Kg-dry	1	1/27/2024 7:52:00 AM
Zinc	9.44	2.29		mg/Kg-dry	1	1/27/2024 7:52:00 AM

**PAHS BY SW8270E** **SW8270** **SW3546** Analyst: JDB  
**SVOC 8270EPAH SIM**

Acenaphthene	ND	0.0427		mg/Kg-dry	1	1/26/2024 1:31:00 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 12:50:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-016 **Matrix:** SOLID  
**Client Sample ID:** SB4 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0427		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Anthracene	ND	0.0427		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Benzo(a)anthracene	ND	0.0427		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Benzo(a)pyrene	ND	0.0427		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Benzo(b)fluoranthene	ND	0.0427		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Benzo(g,h,i)perylene	ND	0.0427		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Benzo(k)fluoranthene	ND	0.0427	m	mg/Kg-dry	1	1/26/2024 1:31:00 AM
Chrysene	ND	0.0427		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Dibenzo (a,h) anthracene	ND	0.0427		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Fluoranthene	ND	0.0427		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Fluorene	ND	0.0427		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0427		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Naphthalene	ND	0.0214		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Phenanthrene	ND	0.0481		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Pyrene	ND	0.0801		mg/Kg-dry	1	1/26/2024 1:31:00 AM
Surr: Nitrobenzene-d5	62.2	10 - 129		%Rec	1	1/26/2024 1:31:00 AM
Surr: 2-Fluorobiphenyl	62.5	10 - 122		%Rec	1	1/26/2024 1:31:00 AM
Surr: p-Terphenyl-d14	62.7	10 - 151		%Rec	1	1/26/2024 1:31:00 AM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>HDJ</b>
Cyanide, Total	ND	0.433		mg/Kg-dry	1	1/26/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	7.67	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 12:55:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-017 **Matrix:** SOLID  
**Client Sample ID:** SB4 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	2610	22.6		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Antimony	ND	2.26		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Arsenic	3.10	2.26		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Barium	20.1	4.51		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Beryllium	ND	0.451		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Boron	22.0	9.03		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Cadmium	ND	0.451		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Calcium	190000	22600	MB+	mg/Kg-dry	1000	1/30/2024 8:16:00 PM
Chromium	4.64	2.26		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Cobalt	ND	2.26		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Copper	ND	7.22		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Iron	8080	451		mg/Kg-dry	50	1/30/2024 6:55:00 PM
Lead	5.27	2.26		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Lithium	ND	9.03		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Magnesium	70800	9030		mg/Kg-dry	1000	1/30/2024 8:16:00 PM
Manganese	161	2.26		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Molybdenum	ND	2.26		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Nickel	3.56	2.26		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Phosphorus	188	22.6		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Potassium	1400	45.1		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Selenium	ND	2.26		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Silicon	289	4.51	BMB+	mg/Kg-dry	1	1/27/2024 7:55:00 AM
Silver	ND	2.26		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Sodium	148	90.3		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Strontium	63.4	4.51		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Thallium	ND	0.903		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Tin	ND	4.51		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Titanium	21.9	4.51		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Vanadium	5.80	4.51		mg/Kg-dry	1	1/27/2024 7:55:00 AM
Zinc	11.8	2.26		mg/Kg-dry	1	1/27/2024 7:55:00 AM

<b>PAHS BY SW8270E</b>						
<b>SVOC 8270EPAH SIM</b>						
		<b>SW8270</b>	<b>SW3546</b>	Analyst: JDB		
Acenaphthene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM

Qualifiers:	B	H	ND	R	W	E	M	PL	RL
	Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	Not Detected	RPD outside accepted recovery limits	Sample container temperature is out of limit as specified at testcode	Value above quantitation range	Manual Integration used to determine area response	Permit Limit	Reporting Detection Limit



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 12:55:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-017 **Matrix:** SOLID  
**Client Sample ID:** SB4 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Anthracene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Benzo(a)anthracene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Benzo(a)pyrene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Benzo(b)fluoranthene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Benzo(g,h,i)perylene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Benzo(k)fluoranthene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Chrysene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Dibenzo (a,h) anthracene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Fluoranthene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Fluorene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0427		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Naphthalene	ND	0.0214		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Phenanthrene	ND	0.0481		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Pyrene	ND	0.0801		mg/Kg-dry	1	1/26/2024 2:05:00 AM
Surr: Nitrobenzene-d5	64.8	10 - 129		%Rec	1	1/26/2024 2:05:00 AM
Surr: 2-Fluorobiphenyl	62.9	10 - 122		%Rec	1	1/26/2024 2:05:00 AM
Surr: p-Terphenyl-d14	62.7	10 - 151		%Rec	1	1/26/2024 2:05:00 AM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>HDJ</b>
Cyanide, Total	ND	0.484		mg/Kg-dry	1	1/26/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	6.93	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:37:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-018 **Matrix:** SOLID  
**Client Sample ID:** SB5 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	5630	1150		mg/Kg-dry	50	1/30/2024 6:59:00 PM
Antimony	ND	2.31		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Arsenic	4.86	2.31		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Barium	80.9	4.61		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Beryllium	ND	0.461		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Boron	21.5	9.22		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Cadmium	ND	0.461		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Calcium	166000	23100	MB+	mg/Kg-dry	1000	1/30/2024 8:20:00 PM
Chromium	6.76	2.31		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Cobalt	27.1	2.31		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Copper	25.5	7.38		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Iron	12100	461		mg/Kg-dry	50	1/30/2024 6:59:00 PM
Lead	9.45	2.31		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Lithium	13.7	9.22		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Magnesium	62400	9220		mg/Kg-dry	1000	1/30/2024 8:20:00 PM
Manganese	247	2.31		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Molybdenum	ND	2.31		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Nickel	71.2	2.31		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Phosphorus	245	23.1		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Potassium	1240	46.1		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Selenium	ND	2.31		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Silicon	402	4.61	BMB+	mg/Kg-dry	1	1/27/2024 7:58:00 AM
Silver	ND	2.31		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Sodium	160	92.2		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Strontium	71.4	4.61		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Thallium	ND	0.922		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Tin	ND	4.61		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Titanium	66.4	4.61		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Vanadium	9.58	4.61		mg/Kg-dry	1	1/27/2024 7:58:00 AM
Zinc	29.4	2.31		mg/Kg-dry	1	1/27/2024 7:58:00 AM

**PAHS BY SW8270E** **SW8270** **SW3546** Analyst: JDB  
**SVOC 8270EPAH SIM**

Acenaphthene	ND	0.0424		mg/Kg-dry	1	1/26/2024 2:38:00 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:37:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-018 **Matrix:** SOLID  
**Client Sample ID:** SB5 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0424		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Anthracene	ND	0.0424		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Benzo(a)anthracene	ND	0.0424		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Benzo(a)pyrene	ND	0.0424		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Benzo(b)fluoranthene	ND	0.0424		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Benzo(g,h,i)perylene	ND	0.0424		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Benzo(k)fluoranthene	ND	0.0424	m	mg/Kg-dry	1	1/26/2024 2:38:00 AM
Chrysene	ND	0.0424		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Dibenzo (a,h) anthracene	ND	0.0424		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Fluoranthene	ND	0.0424		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Fluorene	ND	0.0424		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0424		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Naphthalene	ND	0.0212		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Phenanthrene	ND	0.0477		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Pyrene	ND	0.0795		mg/Kg-dry	1	1/26/2024 2:38:00 AM
Surr: Nitrobenzene-d5	55.3	10 - 129		%Rec	1	1/26/2024 2:38:00 AM
Surr: 2-Fluorobiphenyl	55.8	10 - 122		%Rec	1	1/26/2024 2:38:00 AM
Surr: p-Terphenyl-d14	55.8	10 - 151		%Rec	1	1/26/2024 2:38:00 AM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>HDJ</b>
Cyanide, Total	ND	0.530		mg/Kg-dry	1	1/26/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	5.71	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:37:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-019 **Matrix:** SOLID  
**Client Sample ID:** SB5 (0-2)R

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	3310	22.9		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Antimony	ND	2.29		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Arsenic	4.14	2.29		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Barium	78.3	4.59		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Beryllium	ND	0.459		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Boron	23.8	9.18		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Cadmium	ND	0.459		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Calcium	204000	22900	MB+	mg/Kg-dry	1000	1/30/2024 8:23:00 PM
Chromium	5.16	2.29		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Cobalt	46.4	2.29		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Copper	42.4	7.34		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Iron	15900	459		mg/Kg-dry	50	1/30/2024 7:02:00 PM
Lead	8.88	2.29		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Lithium	18.2	9.18		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Magnesium	69300	9180		mg/Kg-dry	1000	1/30/2024 8:23:00 PM
Manganese	238	2.29		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Molybdenum	ND	2.29		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Nickel	126	2.29		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Phosphorus	416	22.9		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Potassium	1140	45.9		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Selenium	ND	2.29		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Silicon	286	4.59	BMB+	mg/Kg-dry	1	1/27/2024 8:02:00 AM
Silver	ND	2.29		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Sodium	159	91.8		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Strontium	59.5	4.59		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Thallium	ND	0.918		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Tin	ND	4.59		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Titanium	43.5	4.59		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Vanadium	6.94	4.59		mg/Kg-dry	1	1/27/2024 8:02:00 AM
Zinc	27.3	2.29		mg/Kg-dry	1	1/27/2024 8:02:00 AM

**PAHS BY SW8270E** **SW8270** **SW3546** Analyst: JDB  
**SVOC 8270EPAH SIM**

Acenaphthene	ND	0.0419		mg/Kg-dry	1	1/26/2024 3:12:00 AM
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Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:37:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-019 **Matrix:** SOLID  
**Client Sample ID:** SB5 (0-2)R

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0419		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Anthracene	ND	0.0419		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Benzo(a)anthracene	ND	0.0419		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Benzo(a)pyrene	ND	0.0419	m	mg/Kg-dry	1	1/26/2024 3:12:00 AM
Benzo(b)fluoranthene	ND	0.0419		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Benzo(g,h,i)perylene	ND	0.0419		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Benzo(k)fluoranthene	ND	0.0419	m	mg/Kg-dry	1	1/26/2024 3:12:00 AM
Chrysene	ND	0.0419		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Dibenzo (a,h) anthracene	ND	0.0419		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Fluoranthene	ND	0.0419		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Fluorene	ND	0.0419		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0419		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Naphthalene	ND	0.0210		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Phenanthrene	ND	0.0472		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Pyrene	ND	0.0786		mg/Kg-dry	1	1/26/2024 3:12:00 AM
Surr: Nitrobenzene-d5	60.1	10 - 129		%Rec	1	1/26/2024 3:12:00 AM
Surr: 2-Fluorobiphenyl	57.5	10 - 122		%Rec	1	1/26/2024 3:12:00 AM
Surr: p-Terphenyl-d14	60.7	10 - 151		%Rec	1	1/26/2024 3:12:00 AM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.358	QM-	mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	6.88	0.100	QDR	%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:40:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-020 **Matrix:** SOLID  
**Client Sample ID:** SB5 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	9180	1290		mg/Kg-dry	50	1/30/2024 7:05:00 PM
Antimony	ND	2.57		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Arsenic	6.26	2.57		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Barium	33.8	5.14		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Beryllium	ND	0.514		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Boron	24.7	10.3		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Cadmium	ND	0.514		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Calcium	134000	25700	MB+	mg/Kg-dry	1000	1/30/2024 8:27:00 PM
Chromium	9.44	2.57		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Cobalt	3.60	2.57		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Copper	11.0	8.23		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Iron	18600	514		mg/Kg-dry	50	1/30/2024 7:05:00 PM
Lead	7.00	2.57		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Lithium	10.9	10.3		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Magnesium	52500	10300		mg/Kg-dry	1000	1/30/2024 8:27:00 PM
Manganese	251	2.57		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Molybdenum	3.06	2.57		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Nickel	10.2	2.57		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Phosphorus	226	25.7		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Potassium	1400	51.4		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Selenium	ND	2.57		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Silicon	304	5.14	MB+	mg/Kg-dry	1	1/27/2024 8:05:00 AM
Silver	ND	2.57		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Sodium	202	103		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Strontium	65.1	5.14		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Thallium	ND	1.03		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Tin	ND	5.14		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Titanium	88.3	5.14		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Vanadium	15.8	5.14		mg/Kg-dry	1	1/27/2024 8:05:00 AM
Zinc	40.8	2.57		mg/Kg-dry	1	1/27/2024 8:05:00 AM

**PAHS BY SW8270E** **SW8270** **SW3546** Analyst: JDB  
**SVOC 8270EPAH SIM**

Acenaphthene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
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Qualifiers:	B	H	ND	R	W	E	M	PL	RL
	Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	Not Detected	RPD outside accepted recovery limits	Sample container temperature is out of limit as specified at testcode	Value above quantitation range	Manual Integration used to determine area response	Permit Limit	Reporting Detection Limit



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:40:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-020 **Matrix:** SOLID  
**Client Sample ID:** SB5 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Anthracene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Benzo(a)anthracene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Benzo(a)pyrene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Benzo(b)fluoranthene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Benzo(g,h,i)perylene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Benzo(k)fluoranthene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Chrysene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Dibenzo (a,h) anthracene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Fluoranthene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Fluorene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0464		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Naphthalene	ND	0.0232		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Phenanthrene	ND	0.0522		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Pyrene	ND	0.0869		mg/Kg-dry	1	1/26/2024 3:45:00 AM
Surr: Nitrobenzene-d5	64.1	10 - 129		%Rec	1	1/26/2024 3:45:00 AM
Surr: 2-Fluorobiphenyl	64.6	10 - 122		%Rec	1	1/26/2024 3:45:00 AM
Surr: p-Terphenyl-d14	65.5	10 - 151		%Rec	1	1/26/2024 3:45:00 AM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.586		mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	14.7	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:20:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-021 **Matrix:** SOLID  
**Client Sample ID:** SB6 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**TAL METALS LIST**  
**METALS ANALYSIS (6010D)**

**SW6010 SW3050B Analyst: RJE**

Aluminum	3360	22.8		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Antimony	ND	2.28		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Arsenic	3.56	2.28		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Barium	47.7	4.57		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Beryllium	ND	0.457		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Boron	25.7	9.14		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Cadmium	ND	0.457		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Calcium	197000	22800	MB+	mg/Kg-dry	1000	1/30/2024 8:30:00 PM
Chromium	5.45	2.28		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Cobalt	7.40	2.28		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Copper	13.1	7.31		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Iron	7990	457		mg/Kg-dry	50	1/30/2024 7:09:00 PM
Lead	8.64	2.28		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Lithium	ND	9.14		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Magnesium	81500	9140		mg/Kg-dry	1000	1/30/2024 8:30:00 PM
Manganese	172	2.28		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Molybdenum	ND	2.28		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Nickel	29.5	2.28		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Phosphorus	446	22.8		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Potassium	1760	45.7		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Selenium	ND	2.28		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Silicon	291	4.57	BMB+	mg/Kg-dry	1	1/27/2024 8:08:00 AM
Silver	ND	2.28		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Sodium	149	91.4		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Strontium	49.8	4.57		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Thallium	ND	0.914		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Tin	ND	4.57		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Titanium	16.5	4.57		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Vanadium	6.88	4.57		mg/Kg-dry	1	1/27/2024 8:08:00 AM
Zinc	13.3	2.28		mg/Kg-dry	1	1/27/2024 8:08:00 AM

**PAHS BY SW8270E**  
**SVOC 8270EPAH SIM**

**SW8270 SW3546 Analyst: JDB**

Acenaphthene	ND	0.0418		mg/Kg-dry	1	1/26/2024 4:19:00 AM
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<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:20:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-021 **Matrix:** SOLID  
**Client Sample ID:** SB6 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0418		mg/Kg-dry	1	1/26/2024 4:19:00 AM
Anthracene	ND	0.0418		mg/Kg-dry	1	1/26/2024 4:19:00 AM
Benzo(a)anthracene	ND	0.0418		mg/Kg-dry	1	1/26/2024 4:19:00 AM
Benzo(a)pyrene	ND	0.0418	m	mg/Kg-dry	1	1/26/2024 4:19:00 AM
Benzo(b)fluoranthene	ND	0.0418		mg/Kg-dry	1	1/26/2024 4:19:00 AM
Benzo(g,h,i)perylene	ND	0.0418		mg/Kg-dry	1	1/26/2024 4:19:00 AM
Benzo(k)fluoranthene	ND	0.0418	m	mg/Kg-dry	1	1/26/2024 4:19:00 AM
Chrysene	ND	0.0418		mg/Kg-dry	1	1/26/2024 4:19:00 AM
Dibenzo (a,h) anthracene	ND	0.0418		mg/Kg-dry	1	1/26/2024 4:19:00 AM
Fluoranthene	ND	0.0418		mg/Kg-dry	1	1/26/2024 4:19:00 AM
Fluorene	ND	0.0418		mg/Kg-dry	1	1/26/2024 4:19:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0418		mg/Kg-dry	1	1/26/2024 4:19:00 AM
Naphthalene	ND	0.0209		mg/Kg-dry	1	1/26/2024 4:19:00 AM
Phenanthrene	ND	0.0471	m	mg/Kg-dry	1	1/26/2024 4:19:00 AM
Pyrene	ND	0.0784		mg/Kg-dry	1	1/26/2024 4:19:00 AM
Surr: Nitrobenzene-d5	62.8	10 - 129		%Rec	1	1/26/2024 4:19:00 AM
Surr: 2-Fluorobiphenyl	61.4	10 - 122		%Rec	1	1/26/2024 4:19:00 AM
Surr: p-Terphenyl-d14	63.3	10 - 151		%Rec	1	1/26/2024 4:19:00 AM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	1.40	0.510		mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	5.65	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:23:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-022 **Matrix:** SOLID  
**Client Sample ID:** SB6 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	11000	1230		mg/Kg-dry	50	1/30/2024 7:12:00 PM
Antimony	ND	2.47		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Arsenic	5.46	2.47		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Barium	40.3	4.93		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Beryllium	ND	0.493		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Boron	25.3	9.86		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Cadmium	ND	0.493		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Calcium	96700	24700	MB+	mg/Kg-dry	1000	1/30/2024 8:33:00 PM
Chromium	12.7	2.47		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Cobalt	4.89	2.47		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Copper	11.1	7.89		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Iron	18100	493		mg/Kg-dry	50	1/30/2024 7:12:00 PM
Lead	7.04	2.47		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Lithium	18.8	9.86		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Magnesium	49000	9860		mg/Kg-dry	1000	1/30/2024 8:33:00 PM
Manganese	246	2.47		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Molybdenum	2.78	2.47		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Nickel	12.4	2.47		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Phosphorus	290	24.7		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Potassium	1370	49.3		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Selenium	ND	2.47		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Silicon	413	4.93	MB+	mg/Kg-dry	1	1/27/2024 8:12:00 AM
Silver	ND	2.47		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Sodium	155	98.6		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Strontium	40.4	4.93		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Thallium	ND	0.986		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Tin	ND	4.93		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Titanium	301	4.93		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Vanadium	22.4	4.93		mg/Kg-dry	1	1/27/2024 8:12:00 AM
Zinc	44.5	2.47		mg/Kg-dry	1	1/27/2024 8:12:00 AM

**PAHS BY SW8270E** **SW8270** **SW3546** Analyst: JDB  
**SVOC 8270EPAH SIM**

Acenaphthene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
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Qualifiers:	B	H	ND	R	W	E	M	PL	RL
	Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	Not Detected	RPD outside accepted recovery limits	Sample container temperature is out of limit as specified at testcode	Value above quantitation range	Manual Integration used to determine area response	Permit Limit	Reporting Detection Limit



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:23:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-022 **Matrix:** SOLID  
**Client Sample ID:** SB6 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Anthracene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Benzo(a)anthracene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Benzo(a)pyrene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Benzo(b)fluoranthene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Benzo(g,h,i)perylene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Benzo(k)fluoranthene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Chrysene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Dibenzo (a,h) anthracene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Fluoranthene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Fluorene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0428		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Naphthalene	ND	0.0214		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Phenanthrene	ND	0.0481		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Pyrene	ND	0.0802		mg/Kg-dry	1	1/26/2024 4:52:00 AM
Surr: Nitrobenzene-d5	65.5	10 - 129		%Rec	1	1/26/2024 4:52:00 AM
Surr: 2-Fluorobiphenyl	62.0	10 - 122		%Rec	1	1/26/2024 4:52:00 AM
Surr: p-Terphenyl-d14	64.6	10 - 151		%Rec	1	1/26/2024 4:52:00 AM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.522		mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	7.83	0.100		%	1	1/25/2024 5:14:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:03:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-023 **Matrix:** SOLID  
**Client Sample ID:** SB7 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	8260	1330		mg/Kg-dry	50	1/30/2024 7:22:00 PM
Antimony	ND	2.66		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Arsenic	6.27	2.66		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Barium	39.6	5.32		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Beryllium	ND	0.532		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Boron	22.4	10.6		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Cadmium	ND	0.532		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Calcium	94000	26600	MB+	mg/Kg-dry	1000	1/30/2024 8:43:00 PM
Chromium	9.11	2.66		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Cobalt	4.30	2.66		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Copper	12.9	8.52		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Iron	18100	532		mg/Kg-dry	50	1/30/2024 7:22:00 PM
Lead	7.60	2.66		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Lithium	11.1	10.6		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Magnesium	34000	10600		mg/Kg-dry	1000	1/30/2024 8:43:00 PM
Manganese	225	2.66		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Molybdenum	ND	2.66		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Nickel	10.7	2.66		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Phosphorus	213	26.6		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Potassium	1430	53.2		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Selenium	ND	2.66		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Silicon	255	5.32	MB+	mg/Kg-dry	1	1/27/2024 8:25:00 AM
Silver	ND	2.66		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Sodium	115	106		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Strontium	50.4	5.32		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Thallium	ND	1.06		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Tin	ND	5.32		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Titanium	104	5.32		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Vanadium	15.4	5.32		mg/Kg-dry	1	1/27/2024 8:25:00 AM
Zinc	37.5	2.66		mg/Kg-dry	1	1/27/2024 8:25:00 AM

<b>PAHS BY SW8270E</b>						
<b>SVOC 8270EPAH SIM</b>						
		<b>SW8270</b>	<b>SW3546</b>	Analyst: JDB		
Acenaphthene	ND	0.0445		mg/Kg-dry	1	1/26/2024 5:25:00 AM

Qualifiers:	B	H	ND	R	W	E	M	PL	RL
	Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	Not Detected	RPD outside accepted recovery limits	Sample container temperature is out of limit as specified at testcode	Value above quantitation range	Manual Integration used to determine area response	Permit Limit	Reporting Detection Limit



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:03:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-023 **Matrix:** SOLID  
**Client Sample ID:** SB7 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0445		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Anthracene	ND	0.0445		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Benzo(a)anthracene	0.0466	0.0445		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Benzo(a)pyrene	0.0679	0.0445		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Benzo(b)fluoranthene	0.0603	0.0445		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Benzo(g,h,i)perylene	ND	0.0445		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Benzo(k)fluoranthene	ND	0.0445	m	mg/Kg-dry	1	1/26/2024 5:25:00 AM
Chrysene	0.0585	0.0445		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Dibenzo (a,h) anthracene	ND	0.0445		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Fluoranthene	0.0918	0.0445		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Fluorene	ND	0.0445		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.0445		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Naphthalene	ND	0.0223		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Phenanthrene	ND	0.0501		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Pyrene	ND	0.0835		mg/Kg-dry	1	1/26/2024 5:25:00 AM
Surr: Nitrobenzene-d5	53.9	10 - 129		%Rec	1	1/26/2024 5:25:00 AM
Surr: 2-Fluorobiphenyl	51.9	10 - 122		%Rec	1	1/26/2024 5:25:00 AM
Surr: p-Terphenyl-d14	53.9	10 - 151		%Rec	1	1/26/2024 5:25:00 AM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.486		mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	10.5	0.500		%	1	1/25/2024 5:57:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:07:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-024 **Matrix:** SOLID  
**Client Sample ID:** SB7 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	2360	24.9		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Antimony	ND	2.49		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Arsenic	4.51	2.49		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Barium	13.0	4.99		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Beryllium	ND	0.499		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Boron	16.6	9.98		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Cadmium	ND	0.499		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Calcium	166000	24900	MB+	mg/Kg-dry	1000	1/30/2024 8:47:00 PM
Chromium	4.10	2.49		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Cobalt	ND	2.49		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Copper	ND	7.98		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Iron	9690	499		mg/Kg-dry	50	1/30/2024 7:26:00 PM
Lead	ND	2.49		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Lithium	ND	9.98		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Magnesium	73400	9980		mg/Kg-dry	1000	1/30/2024 8:47:00 PM
Manganese	210	2.49		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Molybdenum	ND	2.49		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Nickel	4.80	2.49		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Phosphorus	130	24.9		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Potassium	572	49.9		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Selenium	ND	2.49		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Silicon	19.9	4.99	MB+	mg/Kg-dry	1	1/27/2024 8:29:00 AM
Silver	ND	2.49		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Sodium	158	99.8		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Strontium	58.7	4.99		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Thallium	ND	0.998		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Tin	ND	4.99		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Titanium	22.2	4.99		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Vanadium	5.85	4.99		mg/Kg-dry	1	1/27/2024 8:29:00 AM
Zinc	24.0	2.49		mg/Kg-dry	1	1/27/2024 8:29:00 AM

**PAHS BY SW8270E** **SW8270** **SW3546** Analyst: JDB  
**SVOC 8270EPAH SIM**

Acenaphthene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
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Qualifiers:	B	H	ND	R	W	E	M	PL	RL
	Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	Not Detected	RPD outside accepted recovery limits	Sample container temperature is out of limit as specified at testcode	Value above quantitation range	Manual Integration used to determine area response	Permit Limit	Reporting Detection Limit



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 11:07:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-024 **Matrix:** SOLID  
**Client Sample ID:** SB7 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Anthracene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Benzo(a)anthracene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Benzo(a)pyrene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Benzo(b)fluoranthene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Benzo(g,h,i)perylene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Benzo(k)fluoranthene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Chrysene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Dibenzo (a,h) anthracene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Fluoranthene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Fluorene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0415		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Naphthalene	ND	0.0208		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Phenanthrene	ND	0.0467		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Pyrene	ND	0.0778		mg/Kg-dry	1	1/25/2024 6:45:00 PM
Surr: Nitrobenzene-d5	60.5	10 - 129		%Rec	1	1/25/2024 6:45:00 PM
Surr: 2-Fluorobiphenyl	67.8	10 - 122		%Rec	1	1/25/2024 6:45:00 PM
Surr: p-Terphenyl-d14	62.3	10 - 151		%Rec	1	1/25/2024 6:45:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.524		mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	4.55	0.500		%	1	1/25/2024 5:57:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:30:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-025 **Matrix:** SOLID  
**Client Sample ID:** SB8 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	5290	1260		mg/Kg-dry	50	1/30/2024 7:29:00 PM
Antimony	ND	2.51		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Arsenic	3.08	2.51		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Barium	52.9	5.03		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Beryllium	ND	0.503		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Boron	19.6	10.1		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Cadmium	ND	0.503		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Calcium	208000	25100	MB+	mg/Kg-dry	1000	1/30/2024 8:50:00 PM
Chromium	6.07	2.51		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Cobalt	111	2.51		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Copper	204	8.04		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Iron	10400	503		mg/Kg-dry	50	1/30/2024 7:29:00 PM
Lead	9.91	2.51		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Lithium	81.4	10.1		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Magnesium	58600	10100		mg/Kg-dry	1000	1/30/2024 8:50:00 PM
Manganese	310	2.51		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Molybdenum	ND	2.51		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Nickel	303	2.51		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Phosphorus	314	25.1		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Potassium	1160	50.3		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Selenium	ND	2.51		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Silicon	385	5.03	MB+	mg/Kg-dry	1	1/27/2024 8:32:00 AM
Silver	ND	2.51		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Sodium	161	101		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Strontium	53.8	5.03		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Thallium	ND	1.01		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Tin	12.0	5.03		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Titanium	55.6	5.03		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Vanadium	8.70	5.03		mg/Kg-dry	1	1/27/2024 8:32:00 AM
Zinc	58.8	2.51		mg/Kg-dry	1	1/27/2024 8:32:00 AM

**PAHS BY SW8270E** **SW8270** **SW3546** Analyst: JDB  
**SVOC 8270EPAH SIM**

Acenaphthene	ND	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:30:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-025 **Matrix:** SOLID  
**Client Sample ID:** SB8 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Anthracene	ND	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Benzo(a)anthracene	0.0442	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Benzo(a)pyrene	0.0549	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Benzo(b)fluoranthene	0.0492	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Benzo(g,h,i)perylene	ND	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Benzo(k)fluoranthene	ND	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Chrysene	0.0559	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Dibenzo (a,h) anthracene	ND	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Fluoranthene	0.0894	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Fluorene	ND	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0433		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Naphthalene	ND	0.0217		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Phenanthrene	ND	0.0487		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Pyrene	0.0899	0.0812		mg/Kg-dry	1	1/25/2024 8:26:00 PM
Surr: Nitrobenzene-d5	55.1	10 - 129		%Rec	1	1/25/2024 8:26:00 PM
Surr: 2-Fluorobiphenyl	62.3	10 - 122		%Rec	1	1/25/2024 8:26:00 PM
Surr: p-Terphenyl-d14	54.2	10 - 151		%Rec	1	1/25/2024 8:26:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.543		mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	7.91	0.500		%	1	1/25/2024 5:57:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:35:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-026 **Matrix:** SOLID  
**Client Sample ID:** SB8 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	8030	1180		mg/Kg-dry	50	1/30/2024 7:32:00 PM
Antimony	ND	2.36		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Arsenic	5.88	2.36		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Barium	32.3	4.72		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Beryllium	ND	0.472		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Boron	21.5	9.44		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Cadmium	ND	0.472		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Calcium	93100	23600	MB+	mg/Kg-dry	1000	1/30/2024 8:54:00 PM
Chromium	7.48	2.36		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Cobalt	4.41	2.36		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Copper	19.1	7.55		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Iron	16900	472		mg/Kg-dry	50	1/30/2024 7:32:00 PM
Lead	9.08	2.36		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Lithium	11.8	9.44		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Magnesium	36400	9440		mg/Kg-dry	1000	1/30/2024 8:54:00 PM
Manganese	233	2.36		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Molybdenum	ND	2.36		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Nickel	12.1	2.36		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Phosphorus	218	23.6		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Potassium	1240	47.2		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Selenium	ND	2.36		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Silicon	291	4.72	BMB+	mg/Kg-dry	1	1/27/2024 8:35:00 AM
Silver	ND	2.36		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Sodium	167	94.4		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Strontium	55.8	4.72		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Thallium	ND	0.944		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Tin	7.13	4.72		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Titanium	81.9	4.72		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Vanadium	12.1	4.72		mg/Kg-dry	1	1/27/2024 8:35:00 AM
Zinc	40.7	2.36		mg/Kg-dry	1	1/27/2024 8:35:00 AM

<b>PAHS BY SW8270E</b>						
<b>SVOC 8270EPAH SIM</b>						
		<b>SW8270</b>	<b>SW3546</b>	Analyst: JDB		
Acenaphthene	ND	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM

Qualifiers:	B	H	ND	R	W	E	M	PL	RL
	Analyte detected in the associated Method Blank	Holding times for preparation or analysis exceeded	Not Detected	RPD outside accepted recovery limits	Sample container temperature is out of limit as specified at testcode	Value above quantitation range	Manual Integration used to determine area response	Permit Limit	Reporting Detection Limit



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc

**Collection Date:** 1/23/2024 10:35:00 AM

**Project:** 7775202021.03.\*\*\*\* (Revised)

**Lab ID:** 24011575-026

**Matrix:** SOLID

**Client Sample ID:** SB8 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Anthracene	ND	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Benzo(a)anthracene	ND	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Benzo(a)pyrene	0.0446	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Benzo(b)fluoranthene	ND	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Benzo(g,h,i)perylene	ND	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Benzo(k)fluoranthene	ND	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Chrysene	0.0471	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Dibenzo (a,h) anthracene	ND	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Fluoranthene	0.0556	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Fluorene	ND	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0428		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Naphthalene	ND	0.0214		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Phenanthrene	ND	0.0482		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Pyrene	ND	0.0803		mg/Kg-dry	1	1/25/2024 8:59:00 PM
Surr: Nitrobenzene-d5	59.7	10 - 129		%Rec	1	1/25/2024 8:59:00 PM
Surr: 2-Fluorobiphenyl	66.6	10 - 122		%Rec	1	1/25/2024 8:59:00 PM
Surr: p-Terphenyl-d14	58.7	10 - 151		%Rec	1	1/25/2024 8:59:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.460		mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	7.06	0.500		%	1	1/25/2024 5:57:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:35:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-027 **Matrix:** SOLID  
**Client Sample ID:** SB8 (2-4)R

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	8690	1310		mg/Kg-dry	50	1/30/2024 7:36:00 PM
Antimony	ND	2.62		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Arsenic	5.66	2.62		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Barium	45.8	5.23		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Beryllium	ND	0.523		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Boron	24.8	10.5		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Cadmium	ND	0.523		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Calcium	113000	26200	MB+	mg/Kg-dry	1000	1/30/2024 8:57:00 PM
Chromium	9.28	2.62		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Cobalt	5.12	2.62		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Copper	15.3	8.38		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Iron	18200	523		mg/Kg-dry	50	1/30/2024 7:36:00 PM
Lead	8.11	2.62		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Lithium	13.9	10.5		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Magnesium	44100	10500		mg/Kg-dry	1000	1/30/2024 8:57:00 PM
Manganese	235	2.62		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Molybdenum	ND	2.62		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Nickel	13.4	2.62		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Phosphorus	259	26.2		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Potassium	1720	52.3		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Selenium	ND	2.62		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Silicon	232	5.23	MB+	mg/Kg-dry	1	1/27/2024 8:39:00 AM
Silver	ND	2.62		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Sodium	158	105		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Strontium	60.9	5.23		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Thallium	ND	1.05		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Tin	8.79	5.23		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Titanium	107	5.23		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Vanadium	16.1	5.23		mg/Kg-dry	1	1/27/2024 8:39:00 AM
Zinc	46.8	2.62		mg/Kg-dry	1	1/27/2024 8:39:00 AM

**PAHS BY SW8270E** **SW8270** **SW3546** Analyst: JDB  
**SVOC 8270EPAH SIM**

Acenaphthene	ND	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:35:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-027 **Matrix:** SOLID  
**Client Sample ID:** SB8 (2-4)R

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Anthracene	ND	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Benzo(a)anthracene	ND	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Benzo(a)pyrene	0.0460	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Benzo(b)fluoranthene	ND	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Benzo(g,h,i)perylene	ND	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Benzo(k)fluoranthene	ND	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Chrysene	0.0466	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Dibenzo (a,h) anthracene	ND	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Fluoranthene	0.0587	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Fluorene	ND	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0427		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Naphthalene	ND	0.0213		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Phenanthrene	ND	0.0480		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Pyrene	ND	0.0800		mg/Kg-dry	1	1/25/2024 9:32:00 PM
Surr: Nitrobenzene-d5	57.5	10 - 129		%Rec	1	1/25/2024 9:32:00 PM
Surr: 2-Fluorobiphenyl	63.5	10 - 122		%Rec	1	1/25/2024 9:32:00 PM
Surr: p-Terphenyl-d14	55.4	10 - 151		%Rec	1	1/25/2024 9:32:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.446		mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	7.26	0.500		%	1	1/25/2024 5:57:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:10:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-028 **Matrix:** SOLID  
**Client Sample ID:** SB9 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	8010	1350		mg/Kg-dry	50	1/30/2024 7:39:00 PM
Antimony	ND	2.70		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Arsenic	5.68	2.70		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Barium	32.7	5.39		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Beryllium	ND	0.539		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Boron	25.5	10.8		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Cadmium	ND	0.539		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Calcium	119000	27000	MB+	mg/Kg-dry	1000	1/30/2024 9:00:00 PM
Chromium	8.49	2.70		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Cobalt	3.65	2.70		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Copper	15.7	8.63		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Iron	15900	539		mg/Kg-dry	50	1/30/2024 7:39:00 PM
Lead	5.54	2.70		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Lithium	11.1	10.8		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Magnesium	52600	10800		mg/Kg-dry	1000	1/30/2024 9:00:00 PM
Manganese	243	2.70		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Molybdenum	ND	2.70		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Nickel	9.91	2.70		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Phosphorus	240	27.0		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Potassium	1290	53.9		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Selenium	ND	2.70		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Silicon	311	5.39	MB+	mg/Kg-dry	1	1/27/2024 8:42:00 AM
Silver	ND	2.70		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Sodium	135	108		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Strontium	52.6	5.39		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Thallium	ND	1.08		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Tin	ND	5.39		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Titanium	90.4	5.39		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Vanadium	15.4	5.39		mg/Kg-dry	1	1/27/2024 8:42:00 AM
Zinc	39.7	2.70		mg/Kg-dry	1	1/27/2024 8:42:00 AM
<b>PAHS BY SW8270E</b>						
<b>SVOC 8270EPAH SIM</b>						
		<b>SW8270</b>	<b>SW3546</b>	Analyst: JDB		
Acenaphthene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:10:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-028 **Matrix:** SOLID  
**Client Sample ID:** SB9 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Anthracene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Benzo(a)anthracene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Benzo(a)pyrene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Benzo(b)fluoranthene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Benzo(g,h,i)perylene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Benzo(k)fluoranthene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Chrysene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Dibenzo (a,h) anthracene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Fluoranthene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Fluorene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0442		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Naphthalene	ND	0.0221		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Phenanthrene	ND	0.0497		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Pyrene	ND	0.0828		mg/Kg-dry	1	1/25/2024 10:06:00 PM
Surr: Nitrobenzene-d5	64.9	10 - 129		%Rec	1	1/25/2024 10:06:00 PM
Surr: 2-Fluorobiphenyl	70.6	10 - 122		%Rec	1	1/25/2024 10:06:00 PM
Surr: p-Terphenyl-d14	65.0	10 - 151		%Rec	1	1/25/2024 10:06:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.479		mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	9.95	0.500	QDR	%	1	1/25/2024 5:57:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:14:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-029 **Matrix:** SOLID  
**Client Sample ID:** SB9 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	8350	1330		mg/Kg-dry	50	1/30/2024 7:43:00 PM
Antimony	ND	2.66		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Arsenic	8.91	2.66		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Barium	34.0	5.31		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Beryllium	ND	0.531		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Boron	25.1	10.6		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Cadmium	ND	0.531		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Calcium	117000	26600	MB+	mg/Kg-dry	1000	1/30/2024 9:04:00 PM
Chromium	8.30	2.66		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Cobalt	3.70	2.66		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Copper	13.4	8.50		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Iron	21200	531		mg/Kg-dry	50	1/30/2024 7:43:00 PM
Lead	9.24	2.66		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Lithium	12.2	10.6		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Magnesium	39700	10600		mg/Kg-dry	1000	1/30/2024 9:04:00 PM
Manganese	274	2.66		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Molybdenum	5.14	2.66		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Nickel	10.2	2.66		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Phosphorus	222	26.6		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Potassium	1330	53.1		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Selenium	ND	2.66		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Silicon	346	5.31	MB+	mg/Kg-dry	1	1/27/2024 8:46:00 AM
Silver	ND	2.66		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Sodium	134	106		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Strontium	54.6	5.31		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Thallium	ND	1.06		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Tin	ND	5.31		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Titanium	104	5.31		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Vanadium	15.3	5.31		mg/Kg-dry	1	1/27/2024 8:46:00 AM
Zinc	47.9	2.66		mg/Kg-dry	1	1/27/2024 8:46:00 AM
<b>PAHS BY SW8270E</b>						
<b>SVOC 8270EPAH SIM</b>						
		<b>SW8270</b>	<b>SW3546</b>	Analyst: JDB		
Acenaphthene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:14:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-029 **Matrix:** SOLID  
**Client Sample ID:** SB9 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Anthracene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Benzo(a)anthracene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Benzo(a)pyrene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Benzo(b)fluoranthene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Benzo(g,h,i)perylene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Benzo(k)fluoranthene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Chrysene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Dibenzo (a,h) anthracene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Fluoranthene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Fluorene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0437		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Naphthalene	ND	0.0219		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Phenanthrene	ND	0.0492		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Pyrene	ND	0.0820		mg/Kg-dry	1	1/25/2024 10:39:00 PM
Surr: Nitrobenzene-d5	58.2	10 - 129		%Rec	1	1/25/2024 10:39:00 PM
Surr: 2-Fluorobiphenyl	63.4	10 - 122		%Rec	1	1/25/2024 10:39:00 PM
Surr: p-Terphenyl-d14	57.9	10 - 151		%Rec	1	1/25/2024 10:39:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.521		mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	10.4	0.500		%	1	1/25/2024 5:57:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:45:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-030 **Matrix:** SOLID  
**Client Sample ID:** SB10 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	3610	21.9		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Antimony	ND	2.19		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Arsenic	18.2	2.19		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Barium	46.7	4.38		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Beryllium	ND	0.438		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Boron	20.0	8.75		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Cadmium	ND	0.438		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Calcium	202000	21900	MB+	mg/Kg-dry	1000	1/30/2024 9:07:00 PM
Chromium	5.52	2.19		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Cobalt	4.84	2.19		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Copper	10.0	7.00		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Iron	20400	438		mg/Kg-dry	50	1/30/2024 7:46:00 PM
Lead	6.47	2.19		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Lithium	ND	8.75		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Magnesium	36100	8750		mg/Kg-dry	1000	1/30/2024 9:07:00 PM
Manganese	184	2.19		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Molybdenum	3.31	2.19		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Nickel	12.2	2.19		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Phosphorus	200	21.9		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Potassium	932	43.8		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Selenium	ND	2.19		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Silicon	330	4.38	BMB+	mg/Kg-dry	1	1/27/2024 8:49:00 AM
Silver	ND	2.19		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Sodium	119	87.5		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Strontium	48.0	4.38		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Thallium	ND	0.875		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Tin	ND	4.38		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Titanium	95.6	4.38		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Vanadium	8.75	4.38		mg/Kg-dry	1	1/27/2024 8:49:00 AM
Zinc	36.6	2.19		mg/Kg-dry	1	1/27/2024 8:49:00 AM

**PAHS BY SW8270E** **SW8270** **SW3546** Analyst: JDB  
**SVOC 8270EPAH SIM**

Acenaphthene	ND	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:45:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-030 **Matrix:** SOLID  
**Client Sample ID:** SB10 (0-2)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Anthracene	ND	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Benzo(a)anthracene	ND	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Benzo(a)pyrene	0.0712	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Benzo(b)fluoranthene	0.0591	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Benzo(g,h,i)perylene	0.0707	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Benzo(k)fluoranthene	ND	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Chrysene	0.0543	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Dibenzo (a,h) anthracene	ND	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Fluoranthene	0.0577	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Fluorene	ND	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Indeno(1,2,3-cd)pyrene	0.0467	0.0407		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Naphthalene	ND	0.0203		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Phenanthrene	ND	0.0458		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Pyrene	ND	0.0763		mg/Kg-dry	1	1/25/2024 11:13:00 PM
Surr: Nitrobenzene-d5	54.7	10 - 129		%Rec	1	1/25/2024 11:13:00 PM
Surr: 2-Fluorobiphenyl	60.6	10 - 122		%Rec	1	1/25/2024 11:13:00 PM
Surr: p-Terphenyl-d14	54.2	10 - 151		%Rec	1	1/25/2024 11:13:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.501		mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	3.16	0.500		%	1	1/25/2024 5:57:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:50:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-031 **Matrix:** SOLID  
**Client Sample ID:** SB10 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>						
<b>METALS ANALYSIS (6010D)</b>						
		<b>SW6010</b>	<b>SW3050B</b>	Analyst: RJE		
Aluminum	2500	23.5		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Antimony	ND	2.35		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Arsenic	ND	2.35		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Barium	77.6	4.69		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Beryllium	ND	0.469		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Boron	12.9	9.39		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Cadmium	ND	0.469		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Calcium	259000	23500	MB+	mg/Kg-dry	1000	1/30/2024 9:10:00 PM
Chromium	4.47	2.35		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Cobalt	40.1	2.35		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Copper	14.9	7.51		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Iron	7500	469		mg/Kg-dry	50	1/30/2024 7:49:00 PM
Lead	13.1	2.35		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Lithium	ND	9.39		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Magnesium	45200	9390		mg/Kg-dry	1000	1/30/2024 9:10:00 PM
Manganese	285	2.35		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Molybdenum	ND	2.35		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Nickel	65.1	2.35		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Phosphorus	193	23.5		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Potassium	683	46.9		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Selenium	ND	2.35		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Silicon	289	4.69	BMB+	mg/Kg-dry	1	1/27/2024 8:52:00 AM
Silver	ND	2.35		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Sodium	138	93.9		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Strontium	66.1	4.69		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Thallium	ND	0.939		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Tin	ND	4.69		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Titanium	58.2	4.69		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Vanadium	6.38	4.69		mg/Kg-dry	1	1/27/2024 8:52:00 AM
Zinc	51.3	2.35		mg/Kg-dry	1	1/27/2024 8:52:00 AM

**PAHS BY SW8270E** **SW8270** **SW3546** Analyst: JDB  
**SVOC 8270EPAH SIM**

Acenaphthene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 10:50:00 AM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-031 **Matrix:** SOLID  
**Client Sample ID:** SB10 (2-4)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>SVOC 8270EPAH SIM</b>					<b>SW3546</b>	
Acenaphthylene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Anthracene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Benzo(a)anthracene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Benzo(a)pyrene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Benzo(b)fluoranthene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Benzo(g,h,i)perylene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Benzo(k)fluoranthene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Chrysene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Dibenzo (a,h) anthracene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Fluoranthene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Fluorene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0436		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Naphthalene	ND	0.0218		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Phenanthrene	ND	0.0491		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Pyrene	ND	0.0818		mg/Kg-dry	1	1/25/2024 11:46:00 PM
Surr: Nitrobenzene-d5	66.5	10 - 129		%Rec	1	1/25/2024 11:46:00 PM
Surr: 2-Fluorobiphenyl	71.7	10 - 122		%Rec	1	1/25/2024 11:46:00 PM
Surr: p-Terphenyl-d14	64.3	10 - 151		%Rec	1	1/25/2024 11:46:00 PM
<b>TOTAL CYANIDE (9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.387		mg/Kg-dry	1	1/29/2024 11:20:00 AM
<b>PERCENT MOISTURE BY SM2540MOD</b>					<b>A2540B</b>	Analyst: <b>JPN</b>
Percent Moisture	8.95	0.500		%	1	1/25/2024 5:57:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 2:30:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-032 **Matrix:** NON-POTABLE WATER  
**Client Sample ID:** SW1-012324

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>					<b>SW6010</b>	<b>SW3005A</b> Analyst: RJE
<b>METALS (EPA 6010D)</b>						
Aluminum	8.88	0.500		mg/L	1	1/26/2024 11:32:00 AM
Antimony	ND	0.0200		mg/L	1	1/26/2024 11:32:00 AM
Arsenic	ND	0.0100		mg/L	1	1/26/2024 11:32:00 AM
Barium	0.0865	0.0200		mg/L	1	1/26/2024 11:32:00 AM
Beryllium	ND	0.00100		mg/L	1	1/26/2024 11:32:00 AM
Boron	ND	0.100		mg/L	1	1/26/2024 11:32:00 AM
Cadmium	ND	0.00200		mg/L	1	1/26/2024 11:32:00 AM
Calcium	187	20.0		mg/L	20	1/26/2024 3:55:00 PM
Chromium	0.0128	0.00800		mg/L	1	1/26/2024 11:32:00 AM
Cobalt	0.215	0.0200		mg/L	1	1/26/2024 11:32:00 AM
Copper	0.324	0.00600		mg/L	1	1/26/2024 11:32:00 AM
Iron	6.10	0.100		mg/L	1	1/26/2024 11:32:00 AM
Lead	0.0368	0.0100		mg/L	1	1/26/2024 11:32:00 AM
Lithium	0.0508	0.0500		mg/L	1	1/26/2024 11:32:00 AM
Magnesium	28.4	10.0		mg/L	20	1/26/2024 3:55:00 PM
Manganese	0.437	0.0200		mg/L	1	1/26/2024 11:32:00 AM
Molybdenum	ND	0.0200		mg/L	1	1/26/2024 11:32:00 AM
Nickel	0.343	0.0200		mg/L	1	1/26/2024 11:32:00 AM
Phosphorus	0.690	0.500		mg/L	1	1/26/2024 11:32:00 AM
Potassium	16.3	1.00		mg/L	1	1/26/2024 11:32:00 AM
Selenium	ND	0.00800		mg/L	1	1/26/2024 11:32:00 AM
Silicon	15.6	0.100		mg/L	1	1/26/2024 11:32:00 AM
Silver	ND	0.00400		mg/L	1	1/26/2024 11:32:00 AM
Sodium	4.04	1.00		mg/L	1	1/26/2024 11:32:00 AM
Strontium	ND	0.100		mg/L	1	1/26/2024 11:32:00 AM
Thallium	ND	0.0200		mg/L	1	1/26/2024 11:32:00 AM
Tin	ND	0.100		mg/L	1	1/26/2024 11:32:00 AM
Titanium	0.268	0.0200		mg/L	1	1/26/2024 11:32:00 AM
Vanadium	ND	0.0500		mg/L	1	1/26/2024 11:32:00 AM
Zinc	0.150	0.0200		mg/L	1	1/26/2024 11:32:00 AM
<b>ANIONS (SW9056)</b>					<b>SW9056A</b>	Analyst: TAL
Bromide	ND	0.200		mg/L	2	1/25/2024 8:06:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 2:30:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-032 **Matrix:** NON-POTABLE WATER  
**Client Sample ID:** SW1-012324

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>ANIONS (SW9056)</b>		<b>SW9056A</b>			Analyst: TAL	
Chloride	ND	2.00		mg/L	2	1/25/2024 8:06:00 AM
Fluoride	0.280	0.200	m	mg/L	2	1/25/2024 8:06:00 AM
Nitrogen, Nitrate	ND	1.00		mg/L	2	1/25/2024 8:06:00 AM
Nitrogen, Nitrite	ND	1.00		mg/L	2	1/25/2024 8:06:00 AM
Orthophosphate-P	ND	0.200		mg/L	2	1/25/2024 8:06:00 AM
Sulfate	4.13	2.00		mg/L	2	1/25/2024 8:06:00 AM
<b>TOTAL CYANIDE (SW846 9014)</b>		<b>SW9014</b>			Analyst: KDH	
Cyanide, Total	ND	0.0100	MB+	mg/L	1	1/29/2024 11:20:00 AM

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 12:45:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-033 **Matrix:** NON-POTABLE WATER  
**Client Sample ID:** EB001-012324

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>					<b>SW6010</b>	<b>SW3005A</b> Analyst: RJE
<b>METALS (EPA 6010D)</b>						
Aluminum	ND	0.500		mg/L	1	1/26/2024 11:36:00 AM
Antimony	ND	0.0200		mg/L	1	1/26/2024 11:36:00 AM
Arsenic	ND	0.0100		mg/L	1	1/26/2024 11:36:00 AM
Barium	ND	0.0200		mg/L	1	1/26/2024 11:36:00 AM
Beryllium	ND	0.00100		mg/L	1	1/26/2024 11:36:00 AM
Boron	ND	0.100		mg/L	1	1/26/2024 11:36:00 AM
Cadmium	ND	0.00200		mg/L	1	1/26/2024 11:36:00 AM
Calcium	ND	1.00		mg/L	1	1/26/2024 11:36:00 AM
Chromium	ND	0.00800		mg/L	1	1/26/2024 11:36:00 AM
Cobalt	ND	0.0200		mg/L	1	1/26/2024 11:36:00 AM
Copper	ND	0.00600		mg/L	1	1/26/2024 11:36:00 AM
Iron	ND	0.100		mg/L	1	1/26/2024 11:36:00 AM
Lead	ND	0.0100		mg/L	1	1/26/2024 11:36:00 AM
Lithium	ND	0.0500		mg/L	1	1/26/2024 11:36:00 AM
Magnesium	ND	0.500		mg/L	1	1/26/2024 11:36:00 AM
Manganese	ND	0.0200		mg/L	1	1/26/2024 11:36:00 AM
Molybdenum	ND	0.0200		mg/L	1	1/26/2024 11:36:00 AM
Nickel	ND	0.0200		mg/L	1	1/26/2024 11:36:00 AM
Phosphorus	ND	0.500		mg/L	1	1/26/2024 11:36:00 AM
Potassium	ND	1.00		mg/L	1	1/26/2024 11:36:00 AM
Selenium	ND	0.00800		mg/L	1	1/26/2024 11:36:00 AM
Silicon	ND	0.100		mg/L	1	1/26/2024 11:36:00 AM
Silver	ND	0.00400		mg/L	1	1/26/2024 11:36:00 AM
Sodium	ND	1.00		mg/L	1	1/26/2024 11:36:00 AM
Strontium	ND	0.100		mg/L	1	1/26/2024 11:36:00 AM
Thallium	ND	0.0200		mg/L	1	1/26/2024 11:36:00 AM
Tin	ND	0.100		mg/L	1	1/26/2024 11:36:00 AM
Titanium	ND	0.0200		mg/L	1	1/26/2024 11:36:00 AM
Vanadium	ND	0.0500		mg/L	1	1/26/2024 11:36:00 AM
Zinc	ND	0.0200		mg/L	1	1/26/2024 11:36:00 AM

**PAHS BY SW8270E** **SW8270** **SW3511** Analyst: JDB  
**PAHS BY SW846: 8270E SIM**

Acenaphthene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
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Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 12:45:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-033 **Matrix:** NON-POTABLE WATER  
**Client Sample ID:** EB001-012324

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PAHS BY SW8270E</b>					<b>SW8270</b>	Analyst: <b>JDB</b>
<b>PAHS BY SW846: 8270E SIM</b>					<b>SW3511</b>	
Acenaphthylene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Anthracene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Benzo(a)anthracene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Benzo(a)pyrene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Benzo(b)fluoranthene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Benzo(g,h,i)perylene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Benzo(k)fluoranthene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Chrysene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Dibenzo (a,h) anthracene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Fluoranthene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Fluorene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Naphthalene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Phenanthrene	ND	0.0001150		mg/L	1	1/26/2024 1:15:00 PM
Pyrene	ND	0.0000750		mg/L	1	1/26/2024 1:15:00 PM
Surr: Nitrobenzene-d5	88.7	70 - 153		%Rec	1	1/26/2024 1:15:00 PM
Surr: 2-Fluorobiphenyl	85.5	62.2 - 191		%Rec	1	1/26/2024 1:15:00 PM
Surr: p-Terphenyl-d14	83.0	10 - 171		%Rec	1	1/26/2024 1:15:00 PM
<b>TOTAL CYANIDE (SW846 9014)</b>					<b>SW9014</b>	Analyst: <b>KDH</b>
Cyanide, Total	ND	0.0100	MB+	mg/L	1	1/29/2024 11:20:00 AM

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		



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# Analytical Report

(consolidated)

WO#: 24011575

Date Reported: 2/8/2024

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 2:20:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-034 **Matrix:** NON-POTABLE WATER  
**Client Sample ID:** WC1-012324

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TAL METALS LIST</b>				<b>SW6010</b>	<b>SW3005A</b>	Analyst: RJE
<b>METALS (EPA 6010D)</b>						
Aluminum	35.8	2.50		mg/L	1	1/26/2024 11:46:00 AM
Antimony	ND	0.100		mg/L	1	1/26/2024 11:46:00 AM
Arsenic	ND	0.0500		mg/L	1	1/26/2024 11:46:00 AM
Barium	0.360	0.100		mg/L	1	1/26/2024 11:46:00 AM
Beryllium	ND	0.00500		mg/L	1	1/26/2024 11:46:00 AM
Boron	ND	0.500		mg/L	1	1/26/2024 11:46:00 AM
Cadmium	ND	0.0100		mg/L	1	1/26/2024 11:46:00 AM
Calcium	233	50.0		mg/L	10	1/26/2024 3:58:00 PM
Chromium	0.220	0.0400		mg/L	1	1/26/2024 11:46:00 AM
Cobalt	0.365	0.100		mg/L	1	1/26/2024 11:46:00 AM
Copper	0.320	0.0300		mg/L	1	1/26/2024 11:46:00 AM
Iron	46.6	0.500		mg/L	1	1/26/2024 11:46:00 AM
Lead	ND	0.0500		mg/L	1	1/26/2024 11:46:00 AM
Lithium	ND	0.250		mg/L	1	1/26/2024 11:46:00 AM
Magnesium	58.7	25.0		mg/L	10	1/26/2024 3:58:00 PM
Manganese	1.46	0.100		mg/L	1	1/26/2024 11:46:00 AM
Molybdenum	ND	0.100		mg/L	1	1/26/2024 11:46:00 AM
Nickel	0.756	0.100		mg/L	1	1/26/2024 11:46:00 AM
Phosphorus	35.3	2.50		mg/L	1	1/26/2024 11:46:00 AM
Potassium	15.2	5.00		mg/L	1	1/26/2024 11:46:00 AM
Selenium	ND	0.0400		mg/L	1	1/26/2024 11:46:00 AM
Silicon	63.0	0.500		mg/L	1	1/26/2024 11:46:00 AM
Silver	ND	0.0200		mg/L	1	1/26/2024 11:46:00 AM
Sodium	168	5.00		mg/L	1	1/26/2024 11:46:00 AM
Strontium	ND	0.500		mg/L	1	1/26/2024 11:46:00 AM
Thallium	ND	0.100		mg/L	1	1/26/2024 11:46:00 AM
Tin	ND	0.500		mg/L	1	1/26/2024 11:46:00 AM
Titanium	1.13	0.100		mg/L	1	1/26/2024 11:46:00 AM
Vanadium	ND	0.250		mg/L	1	1/26/2024 11:46:00 AM
Zinc	0.409	0.100		mg/L	1	1/26/2024 11:46:00 AM
<b>ANIONS (SW9056)</b>				<b>SW9056A</b>		Analyst: TAL
Bromide	ND	0.200		mg/L	2	1/25/2024 8:41:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response  
 ND Not Detected PL Permit Limit  
 R RPD outside accepted recovery limits RL Reporting Detection Limit  
 W Sample container temperature is out of limit as specified at testcode



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# Analytical Report

(consolidated)

WO#: **24011575**

Date Reported: **2/8/2024**

**CLIENT:** WSP Global Inc **Collection Date:** 1/23/2024 2:20:00 PM  
**Project:** 7775202021.03.\*\*\*\* (Revised)  
**Lab ID:** 24011575-034 **Matrix:** NON-POTABLE WATER  
**Client Sample ID:** WC1-012324

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>ANIONS (SW9056)</b>						Analyst: TAL
		<b>SW9056A</b>				
Chloride	26.8	2.00		mg/L	2	1/25/2024 8:41:00 AM
Fluoride	0.554	0.200	m	mg/L	2	1/25/2024 8:41:00 AM
Nitrogen, Nitrate	ND	1.00		mg/L	2	1/25/2024 8:41:00 AM
Nitrogen, Nitrite	ND	1.00		mg/L	2	1/25/2024 8:41:00 AM
Orthophosphate-P	0.523	0.200		mg/L	2	1/25/2024 8:41:00 AM
Sulfate	27.6	2.00		mg/L	2	1/25/2024 8:41:00 AM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72334

Sample ID: <b>MB-72334</b>	SampType: <b>MBLK</b>	TestCode: <b>Mtl-ICP_Wipe</b>	Units: <b>mg/wipe</b>	Prep Date: <b>1/24/2024</b>	RunNo: <b>178774</b>						
Client ID: <b>PBW</b>	Batch ID: <b>72334</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4854909</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.00500									
Antimony	ND	0.00500									
Arsenic	ND	0.0100									
Barium	ND	0.00500									
Beryllium	ND	0.00500									
Boron	ND	0.00500									
Cadmium	ND	0.0100									
Calcium	ND	0.00500									
Chromium	ND	0.0100									
Cobalt	ND	0.00500									
Copper	ND	0.00500									
Iron	ND	0.00500									
Lead	ND	0.0100									
Lithium	ND	0.00500									
Magnesium	ND	0.00500									
Manganese	ND	0.00500									
Molybdenum	ND	0.00500									
Nickel	ND	0.00500									
Phosphorus	ND	0.0500									
Potassium	ND	0.100									
Selenium	ND	0.00500									
Silicon	ND	0.100									QC-QV-
Silver	ND	0.00500									

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits

Revision v2



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72334

Sample ID: <b>MB-72334</b>	SampType: <b>MBLK</b>	TestCode: <b>Mtl-ICP_Wipe</b>	Units: <b>mg/wipe</b>	Prep Date: <b>1/24/2024</b>	RunNo: <b>178774</b>						
Client ID: <b>PBW</b>	Batch ID: <b>72334</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4854909</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	1.00									
Strontium	ND	0.00500									
Thallium	ND	0.00500									
Tin	ND	0.00500									
Titanium	ND	0.0500									
Vanadium	ND	0.00500									
Zinc	ND	0.00500									

Sample ID: <b>LCS-72334</b>	SampType: <b>LCS</b>	TestCode: <b>Mtl-ICP_Wipe</b>	Units: <b>mg/wipe</b>	Prep Date: <b>1/24/2024</b>	RunNo: <b>178774</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>72334</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4854910</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0999	0.00500	0.1000	0	99.9	80	120				
Antimony	0.0935	0.00500	0.1000	0	93.5	80	120				
Arsenic	0.0971	0.0100	0.1000	0	97.1	80	120				
Barium	0.104	0.00500	0.1000	0	104	80	120				
Beryllium	ND	0.00500	0.1000	0	0	80	120				ES
Boron	0.0908	0.00500	0.1000	0	90.8	80	120				
Cadmium	0.0937	0.0100	0.1000	0	93.6	80	120				
Calcium	0.119	0.00500	0.1000	0	119	80	120				
Chromium	0.104	0.0100	0.1000	0	104	80	120				
Cobalt	0.0994	0.00500	0.1000	0	99.4	80	120				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72334

Sample ID: LCS-72334	SampType: LCS	TestCode: Mtl-ICP_Wipe	Units: mg/wipe	Prep Date: 1/24/2024	RunNo: 178774						
Client ID: LCSW	Batch ID: 72334	TestNo: SW6010	SW3050B	Analysis Date: 1/25/2024	SeqNo: 4854910						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.103	0.00500	0.1000	0	103	80	120				
Iron	0.101	0.00500	0.1000	0	101	80	120				
Lead	0.0986	0.0100	0.1000	0	98.6	80	120				
Lithium	0.0839	0.00500	0.1000	0	83.9	80	120				
Magnesium	0.106	0.00500	0.1000	0	106	80	120				
Manganese	0.101	0.00500	0.1000	0	101	80	120				
Molybdenum	0.105	0.00500	0.1000	0	105	80	120				
Nickel	0.100	0.00500	0.1000	0	100	80	120				
Phosphorus	0.0956	0.0500	0.1000	0	95.6	80	120				
Potassium	ND	0.100	0.1000	0	0	80	120				S
Selenium	0.0843	0.00500	0.1000	0	84.3	80	120				
Silicon	ND	0.100	0.1000	0	0	80	120				SQC-QV-
Silver	0.101	0.00500	0.1000	0	101	80	120				
Sodium	ND	1.00	0.1000	0	120	80	120				S
Strontium	ND	0.00500	0.1000	0	0	80	120				S
Thallium	ND	0.00500	0.1000	0	0	80	120				S
Tin	0.103	0.00500	0.1000	0	103	80	120				
Titanium	0.107	0.0500	0.1000	0	107	80	120				
Vanadium	0.102	0.00500	0.1000	0	102	80	120				
Zinc	0.0952	0.00500	0.1000	0	95.2	80	120				

**Qualifiers:**

- |   |   |    |                                |    |  |
|---|---|----|--------------------------------|----|--|
| B | Analyte detected in the associated Method Blank                       | E  | Value above quantitation range | H  | Holding times for preparation or analysis exceeded |
| M | Manual Integration used to determine area response                    | ND | Not Detected                   | PL | Permit Limit                                       |
| R | RPD outside accepted recovery limits                                  | RL | Reporting Detection Limit      | S  | Spike Recovery outside accepted recovery limits    |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |  |



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72334

Sample ID: <b>MB-72334</b>	SampType: <b>MBLK</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/24/2024</b>	RunNo: <b>178774</b>						
Client ID: <b>PBS</b>	Batch ID: <b>72334</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4845594</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	22.9									
Antimony	ND	2.29									
Arsenic	ND	2.29									
Barium	ND	4.59									
Beryllium	ND	0.459									
Boron	ND	9.17									
Cadmium	ND	0.459									
Calcium	ND	22.9									
Chromium	ND	2.29									
Cobalt	ND	2.29									
Copper	ND	7.34									
Iron	ND	9.17									
Lead	ND	2.29									
Lithium	ND	9.17									
Magnesium	ND	9.17									
Manganese	ND	2.29									
Molybdenum	ND	2.29									
Nickel	ND	2.29									
Phosphorus	ND	22.9									
Potassium	ND	45.9									
Selenium	ND	2.29									
Silicon	ND	4.59									QC-QV-
Silver	ND	2.29									

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits

Revision v2



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72334

Sample ID: <b>MB-72334</b>	SampType: <b>MBLK</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/24/2024</b>	RunNo: <b>178774</b>						
Client ID: <b>PBS</b>	Batch ID: <b>72334</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4845594</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	91.7									
Strontium	ND	4.59									
Thallium	ND	0.917									
Tin	ND	4.59									
Titanium	ND	4.59									
Vanadium	ND	4.59									
Zinc	ND	2.29									

Sample ID: <b>LCS-72334</b>	SampType: <b>LCS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/24/2024</b>	RunNo: <b>178774</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>72334</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4845595</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	92.5	23.1	92.59	0	99.9	80	120				
Antimony	86.6	2.31	92.59	0	93.5	80	120				
Arsenic	89.9	2.31	92.59	0	97.1	80	120				
Barium	96.1	4.63	92.59	0	104	80	120				
Beryllium	92.5	0.463	92.59	0	99.9	80	120				E
Boron	84.1	9.26	92.59	0	90.8	80	120				
Cadmium	86.7	0.463	92.59	0	93.6	80	120				
Calcium	110	23.1	92.59	0	119	80	120				MB+
Chromium	95.9	2.31	92.59	0	104	80	120				
Cobalt	92.0	2.31	92.59	0	99.4	80	120				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				



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# QC SUMMARY REPORT

WO#: 24011575  
08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72334

Sample ID: <b>LCS-72334</b>	SampType: <b>LCS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/24/2024</b>	RunNo: <b>178774</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>72334</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4845595</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	94.9	7.41	92.59	0	103	80	120				
Iron	93.5	9.26	92.59	0	101	80	120				
Lead	91.3	2.31	92.59	0	98.6	80	120				
Lithium	77.7	9.26	92.59	0	83.9	80	120				
Magnesium	98.1	9.26	92.59	0	106	80	120				
Manganese	93.2	2.31	92.59	0	101	80	120				
Molybdenum	97.6	2.31	92.59	0	105	80	120				
Nickel	92.8	2.31	92.59	0	100	80	120				
Phosphorus	88.5	23.1	92.59	0	95.6	80	120				
Potassium	97.6	46.3	92.59	0	105	80	120				
Selenium	78.1	2.31	92.59	0	84.3	80	120				
Silicon	ND	4.63	92.59	0	0	80	120				SQC-QV-
Silver	93.8	2.31	92.59	0	101	80	120				
Strontium	92.3	4.63	92.59	0	99.7	80	120				
Thallium	89.3	0.926	92.59	0	96.4	80	120				
Tin	95.8	4.63	92.59	0	103	80	120				
Titanium	98.8	4.63	92.59	0	107	80	120				
Vanadium	94.6	4.63	92.59	0	102	80	120				
Zinc	88.1	2.31	92.59	0	95.2	80	120				

**Qualifiers:**

- |   |   |    |                                |    |  |
|---|---|----|--------------------------------|----|--|
| B | Analyte detected in the associated Method Blank                       | E  | Value above quantitation range | H  | Holding times for preparation or analysis exceeded |
| M | Manual Integration used to determine area response                    | ND | Not Detected                   | PL | Permit Limit                                       |
| R | RPD outside accepted recovery limits                                  | RL | Reporting Detection Limit      | S  | Spike Recovery outside accepted recovery limits    |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |  |



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72334

Sample ID: LCS-72334	SampType: LCS	TestCode: Mtl-ICP_S(60)	Units: mg/Kg	Prep Date: 1/24/2024	RunNo: 178774						
Client ID: LCSS	Batch ID: 72334	TestNo: SW6010	SW3050B	Analysis Date: 1/25/2024	SeqNo: 4845597						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	228	23.1	231.5	0	98.5	80	120				
Antimony	17.7	2.31	18.52	0	95.6	80	120				
Arsenic	6.80	2.31	7.407	0	91.8	80	120				
Barium	9.87	4.63	9.259	0	107	80	120				
Beryllium	0.949	0.463	0.9259	0	103	80	120				
Boron	20.8	9.26	18.52	0	112	80	120				
Cadmium	1.77	0.463	1.852	0	95.8	80	120				
Calcium	260	23.1	231.5	0	112	80	120				MB+
Chromium	7.74	2.31	7.407	0	104	80	120				
Cobalt	18.4	2.31	18.52	0	99.5	80	120				
Copper	ND	7.41	5.556	0	109	80	120				
Iron	21.6	9.26	18.52	0	116	80	120				
Lead	18.2	2.31	18.52	0	98.2	80	120				
Lithium	20.5	9.26	23.15	0	88.6	80	120				
Magnesium	41.1	9.26	37.04	0	111	80	120				
Manganese	ND	2.31	1.852	0	108	80	120				
Molybdenum	7.71	2.31	7.407	0	104	80	120				
Nickel	3.74	2.31	3.704	0	101	80	120				
Phosphorus	213	23.1	231.5	0	92.1	80	120				
Potassium	479	46.3	463.0	0	104	80	120				
Selenium	7.94	2.31	9.259	0	85.8	80	120				
Silicon	ND	4.63	92.59	0	0	80	120				SQC-QV-
Silver	ND	2.31	1.852	0	90.8	80	120				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72334

Sample ID: <b>LCS-72334</b>	SampType: <b>LCS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/24/2024</b>	RunNo: <b>178774</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>72334</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4845597</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	482	92.6	463.0	0	104	80	120				
Strontium	47.4	4.63	46.30	0	102	80	120				
Thallium	18.4	0.926	18.52	0	99.4	80	120				
Titanium	49.2	4.63	46.30	0	106	80	120				
Vanadium	47.9	4.63	46.30	0	104	80	120				
Zinc	10.2	2.31	9.259	0	111	80	120				

Sample ID: <b>24011449-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>1/24/2024</b>	RunNo: <b>178774</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>72334</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4845604</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	18400	124	497.3	12780	1130	75	125				S
Antimony	394	12.4	497.3	4.381	78.3	75	125				
Arsenic	487	12.4	497.3	0	98.0	75	125				
Barium	819	24.9	497.3	299.9	104	75	125				
Beryllium	510	2.49	497.3	0.5100	103	75	125				E
Boron	519	49.7	497.3	75.98	89.0	75	125				
Cadmium	455	2.49	497.3	1.252	91.3	75	125				
Calcium	ND	124	497.3	0	0	75	125				SMB+
Chromium	537	12.4	497.3	34.07	101	75	125				
Cobalt	488	12.4	497.3	7.255	96.6	75	125				
Copper	777	39.8	497.3	248.6	106	75	125				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72334

Sample ID: 24011449-001AMS	SampType: MS	TestCode: Mtl-ICP_S(60)	Units: mg/Kg-dry	Prep Date: 1/24/2024	RunNo: 178774						
Client ID: BatchQC	Batch ID: 72334	TestNo: SW6010	SW3050B	Analysis Date: 1/25/2024	SeqNo: 4845604						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	23300	49.7	497.3	22750	103	75	125				E
Lead	503	12.4	497.3	27.51	95.6	75	125				
Lithium	491	49.7	497.3	0	98.6	75	125				
Magnesium	6630	49.7	497.3	5656	195	75	125				ES
Manganese	1340	12.4	497.3	873.7	93.9	75	125				
Molybdenum	520	12.4	497.3	9.063	103	75	125				
Nickel	509	12.4	497.3	21.42	98.0	75	125				
Phosphorus	19900	124	497.3	19450	96.2	75	125				E
Potassium	2250	249	497.3	1663	117	75	125				
Selenium	430	12.4	497.3	0	86.5	75	125				
Silicon	ND	24.9	497.3	0	0	75	125				SQC-QV-
Silver	510	12.4	497.3	2.107	102	75	125				
Sodium	1140	497	497.3	589.0	110	75	125				
Strontium	563	24.9	497.3	80.92	97.0	75	125				
Thallium	463	4.97	497.3	0	93.1	75	125				
Tin	527	24.9	497.3	62.68	93.5	75	125				
Titanium	690	24.9	497.3	282.5	81.9	75	125				
Vanadium	527	24.9	497.3	23.55	101	75	125				
Zinc	1910	12.4	497.3	1493	83.1	75	125				

**Qualifiers:**

- |   |   |    |                                |    |  |
|---|---|----|--------------------------------|----|--|
| B | Analyte detected in the associated Method Blank                       | E  | Value above quantitation range | H  | Holding times for preparation or analysis exceeded |
| M | Manual Integration used to determine area response                    | ND | Not Detected                   | PL | Permit Limit                                       |
| R | RPD outside accepted recovery limits                                  | RL | Reporting Detection Limit      | S  | Spike Recovery outside accepted recovery limits    |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |  |



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72334

Sample ID: 24011449-001AMSD	SampType: MSD	TestCode: Mtl-ICP_S(60)	Units: mg/Kg-dry	Prep Date: 1/24/2024	RunNo: 178774						
Client ID: BatchQC	Batch ID: 72334	TestNo: SW6010	SW3050B	Analysis Date: 1/25/2024	SeqNo: 4845605						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	18900	124	497.3	12780	1240	75	125	18380	2.95	20	S
Antimony	399	12.4	497.3	4.381	79.2	75	125	393.6	1.25	20	
Arsenic	492	12.4	497.3	0	98.9	75	125	487.5	0.848	20	
Barium	844	24.9	497.3	299.9	109	75	125	819.5	2.93	20	
Beryllium	521	2.49	497.3	0.5100	105	75	125	510.4	2.10	20	E
Boron	530	49.7	497.3	75.98	91.3	75	125	518.7	2.18	20	
Cadmium	463	2.49	497.3	1.252	92.8	75	125	455.1	1.65	20	
Calcium	ND	124	497.3	0	0	75	125	0	0	20	SMB+
Chromium	545	12.4	497.3	34.07	103	75	125	537.3	1.50	20	
Cobalt	494	12.4	497.3	7.255	97.8	75	125	487.6	1.26	20	
Copper	802	39.8	497.3	248.6	111	75	125	777.3	3.14	20	
Iron	24000	49.7	497.3	22750	257	75	125	23270	3.23	20	ES
Lead	528	12.4	497.3	27.51	101	75	125	503.1	4.76	20	
Lithium	497	49.7	497.3	0	100	75	125	490.5	1.40	20	
Magnesium	5940	49.7	497.3	5656	57.4	75	125	6626	10.9	20	ES
Manganese	1370	12.4	497.3	873.7	99.8	75	125	1341	2.15	20	
Molybdenum	530	12.4	497.3	9.063	105	75	125	520.2	1.80	20	
Nickel	519	12.4	497.3	21.42	100	75	125	509.0	1.94	20	
Phosphorus	19400	124	497.3	19450	-7.27	75	125	19930	2.62	20	ES
Potassium	2310	249	497.3	1663	130	75	125	2246	2.71	20	S
Selenium	434	12.4	497.3	0	87.2	75	125	430.4	0.748	20	
Silicon	ND	24.9	497.3	0	0	75	125	0	0	20	SQC-QV-
Silver	521	12.4	497.3	2.107	104	75	125	509.8	2.11	20	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72334

Sample ID: <b>24011449-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>1/24/2024</b>	RunNo: <b>178774</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>72334</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4845605</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1190	497	497.3	589.0	121	75	125	1138	4.70	20	
Strontium	575	24.9	497.3	80.92	99.3	75	125	563.2	2.06	20	
Thallium	471	4.97	497.3	0	94.8	75	125	463.1	1.79	20	
Tin	535	24.9	497.3	62.68	95.1	75	125	527.4	1.52	20	
Titanium	711	24.9	497.3	282.5	86.2	75	125	689.8	3.03	20	
Vanadium	538	24.9	497.3	23.55	103	75	125	527.0	2.04	20	
Zinc	1980	12.4	497.3	1493	98.9	75	125	1906	4.04	20	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72360

Sample ID: <b>MB-72360</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC-PAH-L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178847</b>						
Client ID: <b>PBS</b>	Batch ID: <b>72360</b>	TestNo: <b>SW8270</b>	<b>SW3546</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4846609</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0397									
Acenaphthylene	ND	0.0397									
Anthracene	ND	0.0397									
Benzo(a)anthracene	ND	0.0397									
Benzo(a)pyrene	ND	0.0397									
Benzo(b)fluoranthene	ND	0.0397									
Benzo(g,h,i)perylene	ND	0.0397									
Benzo(k)fluoranthene	ND	0.0397									
Chrysene	ND	0.0397									
Dibenzo (a,h) anthracene	ND	0.0397									
Fluoranthene	ND	0.0397									
Fluorene	ND	0.0397									
Indeno(1,2,3-cd)pyrene	ND	0.0397									
Naphthalene	ND	0.0199									
Phenanthrene	ND	0.0447									
Pyrene	ND	0.0744									
Surr: Nitrobenzene-d5	1670		2481		67.2	10	129				
Surr: 2-Fluorobiphenyl	1580		2481		63.8	10	122				
Surr: p-Terphenyl-d14	1610		2481		65.1	10	151				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72360

Sample ID: <b>LCS-72360</b>	SampType: <b>LCS</b>	TestCode: <b>SVOC-PAH-L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178847</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>72360</b>	TestNo: <b>SW8270</b>	<b>SW3546</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4846610</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.104	0.0394	0.197	0	52.8	36	157				
Acenaphthylene	0.103	0.0394	0.197	0	52.4	31.8	162				
Anthracene	0.0990	0.0394	0.197	0	50.2	39.7	153				
Benzo(a)anthracene	0.0990	0.0394	0.197	0	50.2	27.1	141				
Benzo(a)pyrene	0.120	0.0394	0.197	0	60.8	17.1	151				
Benzo(b)fluoranthene	0.103	0.0394	0.197	0	52.4	19	151				
Benzo(g,h,i)perylene	0.106	0.0394	0.197	0	53.7	16.3	131				
Benzo(k)fluoranthene	0.107	0.0394	0.197	0	54.5	33.3	141				
Chrysene	0.106	0.0394	0.197	0	53.7	42.5	144				
Dibenzo (a,h) anthracene	0.0994	0.0394	0.197	0	50.4	10	130				
Fluoranthene	0.0982	0.0394	0.197	0	49.8	42.2	146				
Fluorene	0.104	0.0394	0.197	0	53.0	38.5	160				
Indeno(1,2,3-cd)pyrene	0.100	0.0394	0.197	0	50.9	10	130				
Naphthalene	0.104	0.0197	0.197	0	52.7	31.3	158				
Phenanthrene	0.0989	0.0444	0.197	0	50.2	42.5	158				
Pyrene	0.0999	0.0740	0.197	0	50.7	41.3	149				
Surr: Nitrobenzene-d5	1330		2465		54.1	10	129				
Surr: 2-Fluorobiphenyl	1360		2465		55.1	10	122				
Surr: p-Terphenyl-d14	1320		2465		53.7	10	151				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72360

Sample ID: 24011573-002AMS	SampType: MS	TestCode: SVOC-PAH-L	Units: mg/Kg-dry	Prep Date: 1/25/2024	RunNo: 178847						
Client ID: BatchQC	Batch ID: 72360	TestNo: SW8270	SW3546	Analysis Date: 1/25/2024	SeqNo: 4846612						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.133	0.0450	0.225	0	59.1	28	130				
Acenaphthylene	0.138	0.0450	0.225	0	61.2	10	144				
Anthracene	0.129	0.0450	0.225	0	57.2	14	130				
Benzo(a)anthracene	0.129	0.0450	0.225	0	57.4	10	130				
Benzo(a)pyrene	0.151	0.0450	0.225	0	67.2	10	160				
Benzo(b)fluoranthene	0.135	0.0450	0.225	0	60.0	10	157				
Benzo(g,h,i)perylene	0.137	0.0450	0.225	0	60.8	10	130				
Benzo(k)fluoranthene	0.138	0.0450	0.225	0	61.2	10	131				
Chrysene	0.141	0.0450	0.225	0	62.6	10	136				
Dibenzo (a,h) anthracene	0.128	0.0450	0.225	0	56.9	10	136				
Fluoranthene	0.132	0.0450	0.225	0	58.5	10	175				
Fluorene	0.135	0.0450	0.225	0	60.1	22.9	130				
Indeno(1,2,3-cd)pyrene	0.128	0.0450	0.225	0	56.9	10	130				
Naphthalene	0.135	0.0225	0.225	0	60.0	10	468				
Phenanthrene	0.131	0.0506	0.225	0	58.0	10	181				
Pyrene	0.134	0.0844	0.225	0	59.7	10	130				
Surr: Nitrobenzene-d5	1730		2813		61.5	10	129				
Surr: 2-Fluorobiphenyl	1700		2813		60.5	10	122				
Surr: p-Terphenyl-d14	1700		2813		60.3	10	151				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72360

Sample ID: 24011573-002AMSD	SampType: MSD	TestCode: SVOC-PAH-L	Units: mg/Kg-dry	Prep Date: 1/25/2024	RunNo: 178847						
Client ID: BatchQC	Batch ID: 72360	TestNo: SW8270	SW3546	Analysis Date: 1/25/2024	SeqNo: 4846613						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.129	0.0445	0.223	0	58.1	28	130	0.133	2.79	30	
Acenaphthylene	0.135	0.0445	0.223	0	60.5	10	144	0.138	2.16	30	
Anthracene	0.128	0.0445	0.223	0	57.3	14	130	0.129	0.818	30	
Benzo(a)anthracene	0.129	0.0445	0.223	0	58.0	10	130	0.129	0.0619	30	
Benzo(a)pyrene	0.152	0.0445	0.223	0	68.3	10	160	0.151	0.525	30	
Benzo(b)fluoranthene	0.138	0.0445	0.223	0	62.0	10	157	0.135	2.20	30	
Benzo(g,h,i)perylene	0.138	0.0445	0.223	0	62.0	10	130	0.137	0.862	30	
Benzo(k)fluoranthene	0.140	0.0445	0.223	0	62.7	10	131	0.138	1.34	30	
Chrysene	0.141	0.0445	0.223	0	63.5	10	136	0.141	0.446	30	
Dibenzo (a,h) anthracene	0.132	0.0445	0.223	0	59.1	10	136	0.128	2.64	30	
Fluoranthene	0.130	0.0445	0.223	0	58.6	10	175	0.132	1.02	30	
Fluorene	0.131	0.0445	0.223	0	58.9	22.9	130	0.135	3.19	30	
Indeno(1,2,3-cd)pyrene	0.132	0.0445	0.223	0	59.2	10	130	0.128	2.83	30	
Naphthalene	0.132	0.0223	0.223	0	59.4	10	468	0.135	2.08	30	
Phenanthrene	0.128	0.0501	0.223	0	57.6	10	181	0.131	1.80	30	
Pyrene	0.134	0.0835	0.223	0	60.4	10	130	0.134	0.0130	30	
Surr: Nitrobenzene-d5	1740		2782		62.4	10	129		0	0	
Surr: 2-Fluorobiphenyl	1650		2782		59.3	10	122		0	0	
Surr: p-Terphenyl-d14	1650		2782		59.4	10	151		0	0	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72361

Sample ID: <b>MB-72361</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC-PAH-L</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178849</b>						
Client ID: <b>PBS</b>	Batch ID: <b>72361</b>	TestNo: <b>SW8270</b>	<b>SW3546</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4846651</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0397									
Acenaphthylene	ND	0.0397									
Anthracene	ND	0.0397									
Benzo(a)anthracene	ND	0.0397									
Benzo(a)pyrene	ND	0.0397									
Benzo(b)fluoranthene	ND	0.0397									
Benzo(g,h,i)perylene	ND	0.0397									
Benzo(k)fluoranthene	ND	0.0397									
Chrysene	ND	0.0397									
Dibenzo (a,h) anthracene	ND	0.0397									
Fluoranthene	ND	0.0397									
Fluorene	ND	0.0397									
Indeno(1,2,3-cd)pyrene	ND	0.0397									
Naphthalene	ND	0.0198									
Phenanthrene	ND	0.0446									
Pyrene	ND	0.0744									
Surr: Nitrobenzene-d5	1190		2479		48.1	10	129				
Surr: 2-Fluorobiphenyl	1310		2479		53.0	10	122				
Surr: p-Terphenyl-d14	1230		2479		49.7	10	151				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72361

Sample ID: LCS-72361	SampType: LCS	TestCode: SVOC-PAH-L	Units: mg/Kg	Prep Date: 1/25/2024	RunNo: 178849						
Client ID: LCSS	Batch ID: 72361	TestNo: SW8270	SW3546	Analysis Date: 1/25/2024	SeqNo: 4846652						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.121	0.0390	0.195	0	62.0	36	157				
Acenaphthylene	0.135	0.0390	0.195	0	69.1	31.8	162				
Anthracene	0.129	0.0390	0.195	0	66.0	39.7	153				
Benzo(a)anthracene	0.128	0.0390	0.195	0	65.8	27.1	141				
Benzo(a)pyrene	0.132	0.0390	0.195	0	67.5	17.1	151				
Benzo(b)fluoranthene	0.118	0.0390	0.195	0	60.2	19	151				
Benzo(g,h,i)perylene	0.120	0.0390	0.195	0	61.6	16.3	131				
Benzo(k)fluoranthene	0.136	0.0390	0.195	0	69.7	33.3	141				
Chrysene	0.131	0.0390	0.195	0	67.0	42.5	144				
Dibenzo (a,h) anthracene	0.122	0.0390	0.195	0	62.6	10	130				
Fluoranthene	0.126	0.0390	0.195	0	64.6	42.2	146				
Fluorene	0.127	0.0390	0.195	0	65.3	38.5	160				
Indeno(1,2,3-cd)pyrene	0.120	0.0390	0.195	0	61.5	10	130				
Naphthalene	0.121	0.0195	0.195	0	61.8	31.3	158				
Phenanthrene	0.124	0.0439	0.195	0	63.7	42.5	158				
Pyrene	0.128	0.0732	0.195	0	65.8	41.3	149				
Surr: Nitrobenzene-d5	1410		2439		57.6	10	129				
Surr: 2-Fluorobiphenyl	1530		2439		62.9	10	122				
Surr: p-Terphenyl-d14	1460		2439		59.8	10	151				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72361

Sample ID: 24011575-024AMS	SampType: MS	TestCode: SVOC-PAH-L	Units: mg/Kg-dry	Prep Date: 1/25/2024	RunNo: 178849						
Client ID: SB7 (2-4)	Batch ID: 72361	TestNo: SW8270	SW3546	Analysis Date: 1/25/2024	SeqNo: 4846654						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.136	0.0409	0.205	0	66.4	28	130				
Acenaphthylene	0.153	0.0409	0.205	0	74.9	10	144				
Anthracene	0.146	0.0409	0.205	0	71.5	14	130				
Benzo(a)anthracene	0.148	0.0409	0.205	0	72.3	10	130				
Benzo(a)pyrene	0.151	0.0409	0.205	0	73.7	10	160				
Benzo(b)fluoranthene	0.133	0.0409	0.205	0	65.0	10	157				
Benzo(g,h,i)perylene	0.136	0.0409	0.205	0	66.3	10	130				
Benzo(k)fluoranthene	0.153	0.0409	0.205	0	74.7	10	131				
Chrysene	0.152	0.0409	0.205	0	74.2	10	136				
Dibenzo (a,h) anthracene	0.139	0.0409	0.205	0	67.8	10	136				
Fluoranthene	0.146	0.0409	0.205	0	71.4	10	175				
Fluorene	0.143	0.0409	0.205	0	70.0	22.9	130				
Indeno(1,2,3-cd)pyrene	0.137	0.0409	0.205	0	67.1	10	130				
Naphthalene	0.138	0.0205	0.205	0	67.5	10	468				
Phenanthrene	0.144	0.0461	0.205	0	70.2	10	181				
Pyrene	0.150	0.0768	0.205	0	73.5	10	130				
Surr: Nitrobenzene-d5	1580		2559		61.9	10	129				
Surr: 2-Fluorobiphenyl	1750		2559		68.2	10	122				
Surr: p-Terphenyl-d14	1620		2559		63.4	10	151				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72361

Sample ID: 24011575-024AMSD	SampType: MSD	TestCode: SVOC-PAH-L	Units: mg/Kg-dry	Prep Date: 1/25/2024	RunNo: 178849						
Client ID: SB7 (2-4)	Batch ID: 72361	TestNo: SW8270	SW3546	Analysis Date: 1/25/2024	SeqNo: 4846655						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.151	0.0417	0.208	0	72.4	28	130	0.136	10.3	30	
Acenaphthylene	0.169	0.0417	0.208	0	81.3	10	144	0.153	9.99	30	
Anthracene	0.162	0.0417	0.208	0	77.6	14	130	0.146	9.90	30	
Benzo(a)anthracene	0.163	0.0417	0.208	0	78.3	10	130	0.148	9.74	30	
Benzo(a)pyrene	0.165	0.0417	0.208	0	79.2	10	160	0.151	8.93	30	
Benzo(b)fluoranthene	0.148	0.0417	0.208	0	70.9	10	157	0.133	10.4	30	
Benzo(g,h,i)perylene	0.150	0.0417	0.208	0	72.1	10	130	0.136	10.2	30	
Benzo(k)fluoranthene	0.169	0.0417	0.208	0	81.2	10	131	0.153	10.0	30	
Chrysene	0.168	0.0417	0.208	0	80.5	10	136	0.152	9.94	30	
Dibenzo (a,h) anthracene	0.153	0.0417	0.208	0	73.5	10	136	0.139	9.80	30	
Fluoranthene	0.158	0.0417	0.208	0	76.0	10	175	0.146	8.02	30	
Fluorene	0.159	0.0417	0.208	0	76.1	22.9	130	0.143	10.1	30	
Indeno(1,2,3-cd)pyrene	0.151	0.0417	0.208	0	72.3	10	130	0.137	9.15	30	
Naphthalene	0.152	0.0208	0.208	0	73.1	10	468	0.138	9.66	30	
Phenanthrene	0.157	0.0469	0.208	0	75.4	10	181	0.144	8.98	30	
Pyrene	0.164	0.0781	0.208	0	78.5	10	130	0.150	8.43	30	
Surr: Nitrobenzene-d5	1770		2605		67.8	10	129		0	0	
Surr: 2-Fluorobiphenyl	1950		2605		74.7	10	122		0	0	
Surr: p-Terphenyl-d14	1770		2605		68.0	10	151		0	0	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



Summit Environmental Technologies, Inc.  
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# QC SUMMARY REPORT

WO#: 24011575  
08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72365

Sample ID: <b>MB-72365</b>	SampType: <b>MBLK</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178919</b>						
Client ID: <b>PBS</b>	Batch ID: <b>72365</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4848868</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	21.6									
Antimony	ND	2.16									
Arsenic	ND	2.16									
Barium	ND	4.31									
Beryllium	ND	0.431									
Boron	ND	8.62									
Cadmium	ND	0.431									
Calcium	ND	21.6									
Chromium	ND	2.16									
Cobalt	ND	2.16									
Copper	ND	6.90									
Iron	ND	8.62									
Lead	ND	2.16									
Lithium	ND	8.62									
Magnesium	ND	8.62									
Manganese	ND	2.16									
Molybdenum	ND	2.16									
Nickel	ND	2.16									
Phosphorus	ND	21.6									
Potassium	ND	43.1									
Selenium	ND	2.16									
Silicon	4.78	4.31									
Silver	ND	2.16									

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72365

Sample ID: <b>MB-72365</b>	SampType: <b>MBLK</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178919</b>						
Client ID: <b>PBS</b>	Batch ID: <b>72365</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4848868</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	86.2									
Strontium	ND	4.31									
Thallium	ND	0.862									
Tin	ND	4.31									
Titanium	ND	4.31									
Vanadium	ND	4.31									
Zinc	ND	2.16									

Sample ID: <b>LCS-72365</b>	SampType: <b>LCS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178919</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>72365</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4848869</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	88.8	22.7	90.91	0	97.7	80	120				
Antimony	82.6	2.27	90.91	0	90.9	80	120				
Arsenic	84.7	2.27	90.91	0	93.2	80	120				
Barium	90.9	4.55	90.91	0	100	80	120				
Beryllium	87.5	0.455	90.91	0	96.3	80	120				E
Boron	81.7	9.09	90.91	0	89.8	80	120				
Cadmium	85.2	0.455	90.91	0	93.8	80	120				
Chromium	91.8	2.27	90.91	0	101	80	120				
Cobalt	87.7	2.27	90.91	0	96.4	80	120				
Copper	89.3	7.27	90.91	0	98.2	80	120				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72365

Sample ID: <b>LCS-72365</b>	SampType: <b>LCS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178919</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>72365</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4848869</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	92.8	9.09	90.91	0	102	80	120				
Lead	86.3	2.27	90.91	0	94.9	80	120				
Lithium	73.0	9.09	90.91	0	80.3	80	120				
Magnesium	98.3	9.09	90.91	0	108	80	120				
Manganese	89.2	2.27	90.91	0	98.1	80	120				
Molybdenum	91.4	2.27	90.91	0	101	80	120				
Nickel	90.6	2.27	90.91	0	99.6	80	120				
Phosphorus	83.5	22.7	90.91	0	91.8	80	120				
Potassium	84.8	45.5	90.91	0	93.2	80	120				
Selenium	75.2	2.27	90.91	0	82.7	80	120				
Silicon	49.7	4.55	42.48	0	117	80	120				BMB+
Silver	90.3	2.27	90.91	0	99.4	80	120				
Sodium	93.8	90.9	90.91	0	103	80	120				
Strontium	90.4	4.55	90.91	0	99.5	80	120				
Thallium	90.8	0.909	90.91	0	99.8	80	120				
Tin	93.1	4.55	90.91	0	102	80	120				
Titanium	90.9	4.55	90.91	0	100	80	120				
Vanadium	90.4	4.55	90.91	0	99.4	80	120				
Zinc	83.8	2.27	90.91	0	92.2	80	120				

**Qualifiers:**

- |   |   |    |                                |    |  |
|---|---|----|--------------------------------|----|--|
| B | Analyte detected in the associated Method Blank                       | E  | Value above quantitation range | H  | Holding times for preparation or analysis exceeded |
| M | Manual Integration used to determine area response                    | ND | Not Detected                   | PL | Permit Limit                                       |
| R | RPD outside accepted recovery limits                                  | RL | Reporting Detection Limit      | S  | Spike Recovery outside accepted recovery limits    |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |  |



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72365

Sample ID: LCS-72365	SampType: LCS	TestCode: Mtl-ICP_S(60)	Units: mg/Kg	Prep Date: 1/25/2024	RunNo: 178919						
Client ID: LCSS	Batch ID: 72365	TestNo: SW6010	SW3050B	Analysis Date: 1/26/2024	SeqNo: 4848871						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	202	22.7	227.3	0	89.0	80	120				
Antimony	16.6	2.27	18.18	0	91.1	80	120				
Arsenic	6.48	2.27	7.273	0	89.1	80	120				
Barium	8.73	4.55	9.091	0	96.0	80	120				
Beryllium	0.850	0.455	0.9091	0	93.5	80	120				
Boron	18.6	9.09	18.18	0	102	80	120				
Cadmium	1.63	0.455	1.818	0	89.5	80	120				
Calcium	239	22.7	227.3	0	105	80	120				MB+
Chromium	6.95	2.27	7.273	0	95.6	80	120				
Cobalt	17.4	2.27	18.18	0	95.8	80	120				
Copper	ND	7.27	5.455	0	95.1	80	120				
Iron	20.2	9.09	18.18	0	111	80	120				
Lead	16.3	2.27	18.18	0	89.4	80	120				
Magnesium	39.2	9.09	36.36	0	108	80	120				
Manganese	ND	2.27	1.818	0	105	80	120				
Molybdenum	7.00	2.27	7.273	0	96.2	80	120				
Nickel	3.31	2.27	3.636	0	91.0	80	120				
Phosphorus	194	22.7	227.3	0	85.4	80	120				
Potassium	409	45.5	454.5	0	90.0	80	120				
Selenium	7.47	2.27	9.091	0	82.2	80	120				
Silicon	192	4.55	212.4	0	90.2	80	120				BMB+
Silver	ND	2.27	1.818	0	86.5	80	120				
Sodium	424	90.9	454.5	0	93.2	80	120				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72365

Sample ID: <b>LCS-72365</b>	SampType: <b>LCS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178919</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>72365</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4848871</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Strontium	43.2	4.55	45.45	0	95.1	80	120				
Thallium	17.4	0.909	18.18	0	95.8	80	120				
Titanium	45.0	4.55	45.45	0	98.9	80	120				
Vanadium	42.8	4.55	45.45	0	94.3	80	120				
Zinc	9.27	2.27	9.091	0	102	80	120				

Sample ID: <b>24011575-012AMS</b>	SampType: <b>MS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178919</b>						
Client ID: <b>SB1 (2-4)</b>	Batch ID: <b>72365</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4848873</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	12900	24.8	99.11	11590	1370	75	125				ES
Antimony	43.8	2.48	99.11	0	44.2	75	125				S
Arsenic	93.9	2.48	99.11	8.029	86.7	75	125				
Barium	159	4.96	99.11	65.88	94.3	75	125				
Beryllium	83.9	0.496	99.11	0.5847	84.0	75	125				E
Boron	109	9.91	99.11	30.50	79.0	75	125				
Cadmium	70.8	0.496	99.11	0.3486	71.1	75	125				S
Calcium	ND	24.8	99.11	0	0	75	125				SMB+
Chromium	95.3	2.48	99.11	13.67	82.4	75	125				
Cobalt	78.1	2.48	99.11	5.746	73.0	75	125				S
Copper	107	7.93	99.11	15.57	91.8	75	125				
Iron	10700	9.91	99.11	10430	290	75	125				ES

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72365

Sample ID: 24011575-012AMS	SampType: MS	TestCode: Mtl-ICP_S(60)	Units: mg/Kg-dry	Prep Date: 1/25/2024	RunNo: 178919						
Client ID: SB1 (2-4)	Batch ID: 72365	TestNo: SW6010	SW3050B	Analysis Date: 1/26/2024	SeqNo: 4848873						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	81.0	2.48	99.11	8.985	72.7	75	125				S
Lithium	132	9.91	99.11	17.29	116	75	125				
Magnesium	7350	9.91	99.11	8732	-1390	75	125				ES
Manganese	475	2.48	99.11	377.5	98.5	75	125				E
Molybdenum	82.3	2.48	99.11	2.339	80.7	75	125				
Nickel	93.1	2.48	99.11	17.05	76.7	75	125				
Phosphorus	381	24.8	4955	272.3	2.19	75	125				S
Potassium	2460	49.6	991.1	1918	54.4	75	125				S
Selenium	71.4	2.48	99.11	0	72.0	75	125				S
Silver	93.1	2.48	49.55	0	188	75	125				S
Sodium	246	99.1	4955	124.6	2.45	75	125				S
Strontium	197	4.96	99.11	124.1	73.7	75	125				S
Thallium	73.6	0.991	99.11	0	74.3	75	125				S
Tin	76.4	4.96	99.11	1.158	75.9	75	125				
Titanium	304	4.96	99.11	188.8	117	75	125				
Vanadium	108	4.96	99.11	25.07	83.4	75	125				
Zinc	151	2.48	99.11	56.97	94.8	75	125				

Sample ID: 24011575-012AMSD	SampType: MSD	TestCode: Mtl-ICP_S(60)	Units: mg/Kg-dry	Prep Date: 1/25/2024	RunNo: 178919						
Client ID: SB1 (2-4)	Batch ID: 72365	TestNo: SW6010	SW3050B	Analysis Date: 1/26/2024	SeqNo: 4848874						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72365

Sample ID: 24011575-012AMSD	SampType: MSD	TestCode: Mtl-ICP_S(60)	Units: mg/Kg-dry	Prep Date: 1/25/2024	RunNo: 178919						
Client ID: SB1 (2-4)	Batch ID: 72365	TestNo: SW6010	SW3050B	Analysis Date: 1/26/2024	SeqNo: 4848874						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	14800	26.8	107.3	11590	2990	75	125	12940	13.4	20	ES
Antimony	51.4	2.68	107.3	0	47.9	75	125	43.77	16.1	20	S
Arsenic	99.5	2.68	107.3	8.029	85.3	75	125	93.93	5.77	20	
Barium	174	5.36	107.3	65.88	101	75	125	159.4	8.73	20	
Beryllium	90.5	0.536	107.3	0.5847	83.8	75	125	83.87	7.64	20	E
Boron	119	10.7	107.3	30.50	82.4	75	125	108.8	8.88	20	
Cadmium	77.5	0.536	107.3	0.3486	71.9	75	125	70.83	9.03	20	S
Calcium	ND	26.8	107.3	0	0	75	125	0	0	20	SMB+
Chromium	104	2.68	107.3	13.67	84.4	75	125	95.31	8.89	20	
Cobalt	84.2	2.68	107.3	5.746	73.1	75	125	78.11	7.47	20	S
Copper	117	8.58	107.3	15.57	95.0	75	125	106.6	9.75	20	
Iron	11800	10.7	107.3	10430	1290	75	125	10720	9.75	20	ES
Lead	88.5	2.68	107.3	8.985	74.1	75	125	81.04	8.76	20	S
Lithium	135	10.7	107.3	17.29	110	75	125	131.9	2.60	20	
Magnesium	7540	10.7	107.3	8732	-1110	75	125	7354	2.44	20	ES
Manganese	474	2.68	107.3	377.5	90.4	75	125	475.2	0.143	20	
Molybdenum	89.1	2.68	107.3	2.339	80.9	75	125	82.33	7.92	20	
Nickel	103	2.68	107.3	17.05	79.8	75	125	93.11	9.75	20	
Phosphorus	390	26.8	5364	272.3	2.20	75	125	380.6	2.48	20	S
Potassium	2620	53.6	1073	1918	65.4	75	125	2457	6.40	20	S
Selenium	76.5	2.68	107.3	0	71.3	75	125	71.38	6.88	20	S
Silver	99.0	2.68	53.64	0	185	75	125	93.14	6.14	20	S
Sodium	236	107	5364	124.6	2.08	75	125	245.8	4.13	20	S

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



Summit Environmental Technologies, Inc.  
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 TEL: (330) 253-8211 FAX: (330) 253-4489  
 Website: <http://www.settek.com>

# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72365

Sample ID: <b>24011575-012AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178919</b>						
Client ID: <b>SB1 (2-4)</b>	Batch ID: <b>72365</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4848874</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Strontium	207	5.36	107.3	124.1	77.6	75	125	197.2	5.05	20	
Thallium	81.1	1.07	107.3	0	75.6	75	125	73.62	9.64	20	
Tin	83.0	5.36	107.3	1.158	76.3	75	125	76.42	8.23	20	
Titanium	301	5.36	107.3	188.8	104	75	125	304.4	1.29	20	
Vanadium	119	5.36	107.3	25.07	87.6	75	125	107.8	9.96	20	
Zinc	153	2.68	107.3	56.97	89.3	75	125	150.9	1.22	20	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72365

Sample ID: <b>MB-72365</b>	SampType: <b>MBLK</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>179688</b>						
Client ID: <b>PBS</b>	Batch ID: <b>72365</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>2/8/2024</b>	SeqNo: <b>4870031</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	21.6									
Antimony	ND	2.16									
Arsenic	ND	2.16									
Barium	ND	4.31									
Beryllium	ND	0.431									
Boron	ND	8.62									
Cadmium	ND	0.431									
Calcium	ND	21.6									
Chromium	ND	2.16									
Cobalt	ND	2.16									
Copper	ND	6.90									
Iron	14.8	8.62									
Lead	ND	2.16									
Lithium	ND	8.62									
Magnesium	ND	8.62									
Manganese	ND	2.16									
Molybdenum	ND	2.16									
Nickel	ND	2.16									
Phosphorus	ND	21.6									
Potassium	ND	43.1									
Selenium	ND	2.16									
Silicon	11.2	4.31									B
Silver	ND	2.16									

**Qualifiers:**

- |   |   |    |                                |    |  |
|---|---|----|--------------------------------|----|--|
| B | Analyte detected in the associated Method Blank                       | E  | Value above quantitation range | H  | Holding times for preparation or analysis exceeded |
| M | Manual Integration used to determine area response                    | ND | Not Detected                   | PL | Permit Limit                                       |
| R | RPD outside accepted recovery limits                                  | RL | Reporting Detection Limit      | S  | Spike Recovery outside accepted recovery limits    |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |  |



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72365

Sample ID: <b>MB-72365</b>	SampType: <b>MBLK</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>179688</b>						
Client ID: <b>PBS</b>	Batch ID: <b>72365</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>2/8/2024</b>	SeqNo: <b>4870031</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	86.2									
Strontium	ND	4.31									
Thallium	0.922	0.862									QV+
Tin	ND	4.31									
Titanium	ND	4.31									
Vanadium	ND	4.31									
Zinc	ND	2.16									

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72376

Sample ID: 24011575-033AMS	SampType: MS	TestCode: MTL-ICP_NP	Units: mg/L	Prep Date: 1/25/2024	RunNo: 178874						
Client ID: EB001-012324	Batch ID: 72376	TestNo: SW6010	SW3005A	Analysis Date: 1/26/2024	SeqNo: 4847090						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	5.10	0.500	5.000	0	102	75	125				
Antimony	0.421	0.0200	0.4000	0	105	75	125				
Arsenic	0.161	0.0100	0.1600	0	101	75	125				
Barium	0.208	0.0200	0.2000	0	104	75	125				
Beryllium	0.0206	0.00100	0.02000	0	103	75	125				
Boron	0.401	0.100	0.4000	0	100	75	125				
Cadmium	0.0409	0.00200	0.04000	0	102	75	125				
Calcium	5.34	1.00	5.000	0.2334	102	75	125				
Chromium	0.168	0.00800	0.1600	0	105	75	125				
Cobalt	0.415	0.0200	0.4000	0	104	75	125				
Copper	0.124	0.00600	0.1200	0	104	75	125				
Iron	0.442	0.100	0.4000	0.03510	102	75	125				
Lead	0.422	0.0100	0.4000	0	106	75	125				
Magnesium	0.884	0.500	0.8000	0.07870	101	75	125				
Manganese	0.0450	0.0200	0.04000	0.003000	105	75	125				
Molybdenum	0.172	0.0200	0.1600	0	107	75	125				
Nickel	0.0843	0.0200	0.08000	0	105	75	125				
Phosphorus	5.18	0.500	5.000	0	104	75	125				
Potassium	10.5	1.00	10.00	0.1105	104	75	125				
Selenium	0.206	0.00800	0.2000	0	103	75	125				
Silicon	4.88	0.100	4.673	0.08600	102	75	125				
Silver	0.0402	0.00400	0.04000	0	101	75	125				
Sodium	10.8	1.00	10.00	0.5843	102	75	125				

**Qualifiers:**

- |   |   |    |                                |    |  |
|---|---|----|--------------------------------|----|--|
| B | Analyte detected in the associated Method Blank                       | E  | Value above quantitation range | H  | Holding times for preparation or analysis exceeded |
| M | Manual Integration used to determine area response                    | ND | Not Detected                   | PL | Permit Limit                                       |
| R | RPD outside accepted recovery limits                                  | RL | Reporting Detection Limit      | S  | Spike Recovery outside accepted recovery limits    |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |  |



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72376

Sample ID: <b>24011575-033AMS</b>	SampType: <b>MS</b>	TestCode: <b>MTL-ICP_NP</b>	Units: <b>mg/L</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178874</b>						
Client ID: <b>EB001-012324</b>	Batch ID: <b>72376</b>	TestNo: <b>SW6010</b>	<b>SW3005A</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4847090</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Strontium	1.02	0.100	1.000	0	102	75	125				
Thallium	0.390	0.0200	0.4000	0	97.5	75	125				
Titanium	1.06	0.0200	1.000	0	106	75	125				
Vanadium	1.02	0.0500	1.000	0	102	75	125				
Zinc	0.208	0.0200	0.2000	0	104	75	125				

Sample ID: <b>24011575-033AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>MTL-ICP_NP</b>	Units: <b>mg/L</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178874</b>						
Client ID: <b>EB001-012324</b>	Batch ID: <b>72376</b>	TestNo: <b>SW6010</b>	<b>SW3005A</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4847091</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	5.08	0.500	5.000	0	102	75	125	5.098	0.305	20	
Antimony	0.417	0.0200	0.4000	0	104	75	125	0.4210	1.03	20	
Arsenic	0.160	0.0100	0.1600	0	99.8	75	125	0.1610	0.811	20	
Barium	0.208	0.0200	0.2000	0	104	75	125	0.2085	0.144	20	
Beryllium	0.0206	0.00100	0.02000	0	103	75	125	0.02060	0	20	
Boron	0.399	0.100	0.4000	0	99.7	75	125	0.4006	0.475	20	
Cadmium	0.0414	0.00200	0.04000	0	104	75	125	0.04090	1.22	20	
Calcium	5.32	1.00	5.000	0.2334	102	75	125	5.338	0.304	20	
Chromium	0.168	0.00800	0.1600	0	105	75	125	0.1678	0.0596	20	
Cobalt	0.407	0.0200	0.4000	0	102	75	125	0.4146	1.78	20	
Copper	0.124	0.00600	0.1200	0	103	75	125	0.1242	0.403	20	
Iron	0.446	0.100	0.4000	0.03510	103	75	125	0.4423	0.766	20	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72376

Sample ID: 24011575-033AMSD		SampType: MSD		TestCode: MTL-ICP_NP		Units: mg/L		Prep Date: 1/25/2024		RunNo: 178874	
Client ID: EB001-012324		Batch ID: 72376		TestNo: SW6010		SW3005A		Analysis Date: 1/26/2024		SeqNo: 4847091	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.423	0.0100	0.4000	0	106	75	125	0.4224	0.142	20	
Magnesium	0.880	0.500	0.8000	0.07870	100	75	125	0.8841	0.465	20	
Manganese	0.0450	0.0200	0.04000	0.003000	105	75	125	0.04500	0	20	
Molybdenum	0.163	0.0200	0.1600	0	102	75	125	0.1716	5.02	20	
Nickel	0.0841	0.0200	0.08000	0	105	75	125	0.08430	0.238	7	
Phosphorus	5.09	0.500	5.000	0	102	75	125	5.182	1.81	20	
Potassium	10.5	1.00	10.00	0.1105	104	75	125	10.53	0.345	20	
Selenium	0.204	0.00800	0.2000	0	102	75	125	0.2060	0.780	20	
Silicon	4.76	0.100	4.673	0.08600	99.9	75	125	4.875	2.48	20	
Silver	0.0400	0.00400	0.04000	0	100	75	125	0.04024	0.573	20	
Sodium	10.7	1.00	10.00	0.5843	101	75	125	10.78	0.551	20	
Strontium	1.01	0.100	1.000	0	101	75	125	1.023	0.894	20	
Thallium	0.395	0.0200	0.4000	0	98.7	75	125	0.3898	1.27	20	
Titanium	1.04	0.0200	1.000	0	104	75	125	1.061	1.79	20	
Vanadium	1.02	0.0500	1.000	0	102	75	125	1.023	0.392	20	
Zinc	0.206	0.0200	0.2000	0	103	75	125	0.2078	0.919	20	

Sample ID: MB-72376		SampType: MBLK		TestCode: MTL-ICP_NP		Units: mg/L		Prep Date: 1/25/2024		RunNo: 178874	
Client ID: PBW		Batch ID: 72376		TestNo: SW6010		SW3005A		Analysis Date: 1/26/2024		SeqNo: 4847129	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.500									

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				



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# QC SUMMARY REPORT

WO#: 24011575  
08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72376

Sample ID: <b>MB-72376</b>	SampType: <b>MBLK</b>	TestCode: <b>MTL-ICP_NP</b>	Units: <b>mg/L</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178874</b>						
Client ID: <b>PBW</b>	Batch ID: <b>72376</b>	TestNo: <b>SW6010</b>	<b>SW3005A</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4847129</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.0200									
Arsenic	ND	0.0100									
Barium	ND	0.0200									
Beryllium	ND	0.00100									
Boron	ND	0.100									
Cadmium	ND	0.00200									
Calcium	ND	1.00									
Chromium	ND	0.00800									
Cobalt	ND	0.0200									
Copper	ND	0.00600									
Iron	ND	0.100									
Lead	ND	0.0100									
Magnesium	ND	0.500									
Manganese	ND	0.0200									
Molybdenum	ND	0.0200									
Nickel	ND	0.0200									
Phosphorus	ND	0.500									
Potassium	ND	1.00									
Selenium	ND	0.00800									
Silicon	ND	0.100									
Silver	ND	0.00400									
Sodium	ND	1.00									
Strontium	ND	0.100									

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72376

Sample ID: <b>MB-72376</b>	SampType: <b>MBLK</b>	TestCode: <b>MTL-ICP_NP</b>	Units: <b>mg/L</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178874</b>						
Client ID: <b>PBW</b>	Batch ID: <b>72376</b>	TestNo: <b>SW6010</b>	<b>SW3005A</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4847129</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	ND	0.0200									
Titanium	ND	0.0200									
Vanadium	ND	0.0500									
Zinc	ND	0.0200									

Sample ID: <b>LCS-72376</b>	SampType: <b>LCS</b>	TestCode: <b>MTL-ICP_NP</b>	Units: <b>mg/L</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178874</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>72376</b>	TestNo: <b>SW6010</b>	<b>SW3005A</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4847130</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	5.00	0.500	5.000	0	99.9	80	120				
Antimony	0.413	0.0200	0.4000	0	103	80	120				
Arsenic	0.162	0.0100	0.1600	0	101	80	120				
Barium	0.204	0.0200	0.2000	0	102	80	120				
Beryllium	0.0203	0.00100	0.02000	0	102	80	120				
Boron	0.393	0.100	0.4000	0	98.4	80	120				
Cadmium	0.0403	0.00200	0.04000	0	101	80	120				
Calcium	5.02	1.00	5.000	0	100	80	120				
Chromium	0.164	0.00800	0.1600	0	103	80	120				
Cobalt	0.408	0.0200	0.4000	0	102	80	120				
Copper	0.121	0.00600	0.1200	0	101	80	120				
Iron	0.409	0.100	0.4000	0	102	80	120				
Lead	0.418	0.0100	0.4000	0	104	80	120				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72376

Sample ID: <b>LCS-72376</b>	SampType: <b>LCS</b>	TestCode: <b>MTL-ICP_NP</b>	Units: <b>mg/L</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178874</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>72376</b>	TestNo: <b>SW6010</b>	<b>SW3005A</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4847130</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	0.795	0.500	0.8000	0	99.3	80	120				
Manganese	0.0410	0.0200	0.04000	0	103	80	120				
Molybdenum	0.166	0.0200	0.1600	0	104	80	120				
Nickel	0.0837	0.0200	0.08000	0	105	80	120				
Phosphorus	5.08	0.500	5.000	0	102	80	120				
Potassium	10.2	1.00	10.00	0	102	80	120				
Selenium	0.206	0.00800	0.2000	0	103	80	120				
Silicon	4.72	0.100	4.673	0	101	80	120				
Silver	0.0395	0.00400	0.04000	0	98.8	80	120				
Sodium	10.1	1.00	10.00	0	101	80	120				
Strontium	1.00	0.100	1.000	0	100	80	120				
Thallium	0.400	0.0200	0.4000	0	100	80	120				
Titanium	1.04	0.0200	1.000	0	104	80	120				
Vanadium	1.01	0.0500	1.000	0	101	80	120				
Zinc	0.200	0.0200	0.2000	0	100	80	120				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
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 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72397

Sample ID: <b>MB-72397</b>	SampType: <b>MBLK</b>	TestCode: <b>SVOC-PAH_N</b>	Units: <b>mg/L</b>	Prep Date: <b>1/25/2024</b>	RunNo: <b>178932</b>						
Client ID: <b>PBW</b>	Batch ID: <b>72397</b>	TestNo: <b>SW8270</b>	<b>SW3511</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4848490</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0000750									
Acenaphthylene	ND	0.0000750									
Anthracene	ND	0.0000750									
Benzo(a)anthracene	ND	0.0000750									
Benzo(a)pyrene	ND	0.0000750									
Benzo(b)fluoranthene	ND	0.0000750									
Benzo(g,h,i)perylene	ND	0.0000750									
Benzo(k)fluoranthene	ND	0.0000750									
Chrysene	ND	0.0000750									
Dibenzo (a,h) anthracene	ND	0.0000750									
Fluoranthene	ND	0.0000750									
Fluorene	ND	0.0000750									
Indeno(1,2,3-cd)pyrene	ND	0.0000750									
Naphthalene	ND	0.0000750									
Phenanthrene	ND	0.000150									
Pyrene	ND	0.0000750									
Surr: Nitrobenzene-d5	6.87		7.500		91.6	70	153				
Surr: 2-Fluorobiphenyl	6.72		7.500		89.6	62.2	191				
Surr: p-Terphenyl-d14	6.67		7.500		88.9	10	171				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72397

Sample ID: LCS-72397	SampType: LCS	TestCode: SVOC-PAH_N	Units: mg/L	Prep Date: 1/25/2024	RunNo: 178932						
Client ID: LCSW	Batch ID: 72397	TestNo: SW8270	SW3511	Analysis Date: 1/26/2024	SeqNo: 4848491						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00664	0.0000750	0.00750	0	88.5	70	176				
Acenaphthylene	0.00726	0.0000750	0.00750	0	96.8	70	181				
Anthracene	0.00766	0.0000750	0.00750	0	102	70	173				
Benzo(a)anthracene	0.00805	0.0000750	0.00750	0	107	48.7	163				
Benzo(a)pyrene	0.00930	0.0000750	0.00750	0	124	41.6	157				
Benzo(b)fluoranthene	0.00812	0.0000750	0.00750	0	108	34.8	175				
Benzo(g,h,i)perylene	0.00833	0.0000750	0.00750	0	111	46.4	154				
Benzo(k)fluoranthene	0.00854	0.0000750	0.00750	0	114	59.9	153				
Chrysene	0.00855	0.0000750	0.00750	0	114	64.6	172				
Dibenzo (a,h) anthracene	0.00783	0.0000750	0.00750	0	104	53.3	137				
Fluoranthene	0.00770	0.0000750	0.00750	0	103	40	193				
Fluorene	0.00694	0.0000750	0.00750	0	92.5	70	184				
Indeno(1,2,3-cd)pyrene	0.00788	0.0000750	0.00750	0	105	12.5	156				
Naphthalene	0.00704	0.0000750	0.00750	0	93.8	69.9	187				
Phenanthrene	0.00722	0.000150	0.00750	0	96.3	84.5	189				
Pyrene	0.00777	0.0000750	0.00750	0	104	32.6	194				
Surr: Nitrobenzene-d5	6.89		7.500		91.9	70	153				
Surr: 2-Fluorobiphenyl	6.54		7.500		87.1	62.2	191				
Surr: p-Terphenyl-d14	6.50		7.500		86.6	10	171				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72397

Sample ID: 24011573-005BMS	SampType: MS	TestCode: SVOC-PAH_N	Units: mg/L	Prep Date: 1/25/2024	RunNo: 178932						
Client ID: BatchQC	Batch ID: 72397	TestNo: SW8270	SW3511	Analysis Date: 1/26/2024	SeqNo: 4848492						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00682	0.0000750	0.00750	0	90.9	40.3	182				
Acenaphthylene	0.00724	0.0000750	0.00750	0	96.5	40.2	179				
Anthracene	0.00767	0.0000750	0.00750	0	102	40.6	167				
Benzo(a)anthracene	0.00794	0.0000750	0.00750	0	106	10	186				
Benzo(a)pyrene	0.00918	0.0000750	0.00750	0	122	10	167				
Benzo(b)fluoranthene	0.00803	0.0000750	0.00750	0	107	10	149				
Benzo(g,h,i)perylene	0.00835	0.0000750	0.00750	0	111	10	138				
Benzo(k)fluoranthene	0.00861	0.0000750	0.00750	0	115	10	151				
Chrysene	0.00850	0.0000750	0.00750	0	113	10	163				
Dibenzo (a,h) anthracene	0.00803	0.0000750	0.00750	0	107	10	130				
Fluoranthene	0.00789	0.0000750	0.00750	0	105	10	184				
Fluorene	0.00708	0.0000750	0.00750	0	94.4	10	192				
Indeno(1,2,3-cd)pyrene	0.00808	0.0000750	0.00750	0	108	10	138				
Naphthalene	0.00666	0.0000750	0.00750	0	88.8	64.8	178				
Phenanthrene	0.00749	0.000150	0.00750	0	99.8	52.8	177				
Pyrene	0.00775	0.0000750	0.00750	0	103	14.6	182				
Surr: Nitrobenzene-d5	6.74		7.500		89.9	70	153				
Surr: 2-Fluorobiphenyl	6.35		7.500		84.7	62.2	191				
Surr: p-Terphenyl-d14	6.26		7.500		83.4	10	171				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72397

Sample ID: 24011573-005BMSD	SampType: MSD	TestCode: SVOC-PAH_N	Units: mg/L	Prep Date: 1/25/2024	RunNo: 178932						
Client ID: BatchQC	Batch ID: 72397	TestNo: SW8270	SW3511	Analysis Date: 1/26/2024	SeqNo: 4848493						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.00676	0.0000750	0.00750	0	90.1	40.3	182	0.00682	0.897	30	
Acenaphthylene	0.00725	0.0000750	0.00750	0	96.6	40.2	179	0.00724	0.120	30	
Anthracene	0.00779	0.0000750	0.00750	0	104	40.6	167	0.00767	1.55	30	
Benzo(a)anthracene	0.00812	0.0000750	0.00750	0	108	10	186	0.00794	2.24	30	
Benzo(a)pyrene	0.00925	0.0000750	0.00750	0	123	10	167	0.00918	0.788	30	
Benzo(b)fluoranthene	0.00814	0.0000750	0.00750	0	108	10	149	0.00803	1.27	30	
Benzo(g,h,i)perylene	0.00845	0.0000750	0.00750	0	113	10	138	0.00835	1.25	30	
Benzo(k)fluoranthene	0.00853	0.0000750	0.00750	0	114	10	151	0.00861	0.917	30	
Chrysene	0.00852	0.0000750	0.00750	0	114	10	163	0.00850	0.137	30	
Dibenzo (a,h) anthracene	0.00805	0.0000750	0.00750	0	107	10	130	0.00803	0.231	30	
Fluoranthene	0.00791	0.0000750	0.00750	0	105	10	184	0.00789	0.171	30	
Fluorene	0.00702	0.0000750	0.00750	0	93.6	10	192	0.00708	0.885	30	
Indeno(1,2,3-cd)pyrene	0.00810	0.0000750	0.00750	0	108	10	138	0.00808	0.282	30	
Naphthalene	0.00687	0.0000750	0.00750	0	91.6	64.8	178	0.00666	3.10	30	
Phenanthrene	0.00752	0.000150	0.00750	0	100	52.8	177	0.00749	0.364	30	
Pyrene	0.00801	0.0000750	0.00750	0	107	14.6	182	0.00775	3.31	30	
Surr: Nitrobenzene-d5	6.62		7.500		88.3	70	153		0	30	
Surr: 2-Fluorobiphenyl	6.15		7.500		82.0	62.2	191		0	30	
Surr: p-Terphenyl-d14	6.68		7.500		89.1	10	171		0	30	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72421

Sample ID: <b>MB-72421</b>	SampType: <b>MBLK</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/26/2024</b>	RunNo: <b>178966</b>						
Client ID: <b>PBS</b>	Batch ID: <b>72421</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4849873</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	21.9									
Antimony	ND	2.19									
Arsenic	ND	2.19									
Barium	ND	4.39									
Beryllium	ND	0.439									
Boron	ND	8.77									
Cadmium	ND	0.439									
Calcium	ND	21.9									
Chromium	ND	2.19									
Cobalt	ND	2.19									
Copper	ND	7.02									
Iron	ND	8.77									
Lead	ND	2.19									
Lithium	ND	8.77									
Magnesium	ND	8.77									
Manganese	ND	2.19									
Molybdenum	ND	2.19									
Nickel	ND	2.19									
Phosphorus	ND	21.9									
Potassium	ND	43.9									
Selenium	ND	2.19									
Silicon	5.61	4.39									B
Silver	ND	2.19									

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72421

Sample ID: <b>MB-72421</b>	SampType: <b>MBLK</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/26/2024</b>	RunNo: <b>178966</b>						
Client ID: <b>PBS</b>	Batch ID: <b>72421</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4849873</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	87.7									
Strontium	ND	4.39									
Thallium	ND	0.877									
Tin	ND	4.39									
Titanium	ND	4.39									
Vanadium	ND	4.39									
Zinc	ND	2.19									

Sample ID: <b>LCS-72421</b>	SampType: <b>LCS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/26/2024</b>	RunNo: <b>178966</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>72421</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4849874</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	80.7	22.3	89.29	0	90.4	80	120				
Antimony	77.0	2.23	89.29	0	86.2	80	120				
Arsenic	79.8	2.23	89.29	0	89.3	80	120				
Barium	83.8	4.46	89.29	0	93.9	80	120				
Beryllium	80.0	0.446	89.29	0	89.6	80	120				E
Boron	74.0	8.93	89.29	0	82.8	80	120				
Cadmium	77.8	0.446	89.29	0	87.1	80	120				
Calcium	93.1	22.3	89.29	0	104	80	120				
Chromium	84.8	2.23	89.29	0	95.0	80	120				
Cobalt	83.3	2.23	89.29	0	93.3	80	120				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72421

Sample ID: LCS-72421	SampType: LCS	TestCode: Mtl-ICP_S(60)	Units: mg/Kg	Prep Date: 1/26/2024	RunNo: 178966						
Client ID: LCSS	Batch ID: 72421	TestNo: SW6010	SW3050B	Analysis Date: 1/29/2024	SeqNo: 4849874						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	81.1	7.14	89.29	0	90.8	80	120				
Iron	82.9	8.93	89.29	0	92.8	80	120				
Lead	80.6	2.23	89.29	0	90.2	80	120				
Magnesium	85.0	8.93	89.29	0	95.2	80	120				
Manganese	82.6	2.23	89.29	0	92.6	80	120				
Molybdenum	85.9	2.23	89.29	0	96.2	80	120				
Nickel	80.0	2.23	89.29	0	89.6	80	120				
Phosphorus	76.9	22.3	89.29	0	86.1	80	120				
Potassium	83.6	44.6	89.29	0	93.6	80	120				
Silicon	46.7	4.46	41.96	0	111	80	120				BMB+
Silver	83.5	2.23	89.29	0	93.5	80	120				
Sodium	90.7	89.3	89.29	0	102	80	120				
Strontium	83.5	4.46	89.29	0	93.5	80	120				
Thallium	79.2	0.893	89.29	0	88.7	80	120				
Tin	86.0	4.46	89.29	0	96.3	80	120				
Titanium	85.3	4.46	89.29	0	95.6	80	120				
Vanadium	82.3	4.46	89.29	0	92.1	80	120				
Zinc	76.0	2.23	89.29	0	85.2	80	120				

**Qualifiers:**

- |   |   |    |                                |    |  |
|---|---|----|--------------------------------|----|--|
| B | Analyte detected in the associated Method Blank                       | E  | Value above quantitation range | H  | Holding times for preparation or analysis exceeded |
| M | Manual Integration used to determine area response                    | ND | Not Detected                   | PL | Permit Limit                                       |
| R | RPD outside accepted recovery limits                                  | RL | Reporting Detection Limit      | S  | Spike Recovery outside accepted recovery limits    |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |  |



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72421

Sample ID: LCS-72421	SampType: LCS	TestCode: Mtl-ICP_S(60)	Units: mg/Kg	Prep Date: 1/26/2024	RunNo: 178966						
Client ID: LCSS	Batch ID: 72421	TestNo: SW6010	SW3050B	Analysis Date: 1/29/2024	SeqNo: 4849875						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	223	89.29	0	104	80	120				
Antimony	93.0	22.3	89.29	0	104	80	120				
Arsenic	98.7	22.3	89.29	0	111	80	120				
Barium	91.3	44.6	89.29	0	102	80	120				
Beryllium	88.3	4.46	89.29	0	98.8	80	120				E
Boron	ND	89.3	89.29	0	99.3	80	120				
Cadmium	94.4	4.46	89.29	0	106	80	120				
Chromium	96.7	22.3	89.29	0	108	80	120				
Cobalt	99.0	22.3	89.29	0	111	80	120				
Copper	90.3	71.4	89.29	0	101	80	120				
Iron	96.7	89.3	89.29	0	108	80	120				
Lead	95.2	22.3	89.29	0	107	80	120				
Magnesium	95.4	89.3	89.29	0	107	80	120				
Manganese	96.9	22.3	89.29	0	108	80	120				
Molybdenum	95.4	22.3	89.29	0	107	80	120				
Nickel	93.7	22.3	89.29	0	105	80	120				
Phosphorus	ND	223	89.29	0	110	80	120				
Selenium	93.8	22.3	89.29	0	105	80	120				
Silver	99.5	22.3	89.29	0	111	80	120				
Strontium	97.9	44.6	89.29	0	110	80	120				
Thallium	90.4	8.93	89.29	0	101	80	120				
Tin	102	44.6	89.29	0	114	80	120				
Titanium	95.3	44.6	89.29	0	107	80	120				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72421

Sample ID: <b>LCS-72421</b>	SampType: <b>LCS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/26/2024</b>	RunNo: <b>178966</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>72421</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4849875</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vanadium	91.9	44.6	89.29	0	103	80	120				
Zinc	95.0	22.3	89.29	0	106	80	120				

Sample ID: <b>LCS-72421</b>	SampType: <b>LCS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/26/2024</b>	RunNo: <b>178966</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>72421</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4849876</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	197	22.3	223.2	0	88.2	80	120				
Antimony	15.8	2.23	17.86	0	88.5	80	120				
Arsenic	6.19	2.23	7.143	0	86.6	80	120				
Barium	8.80	4.46	8.929	0	98.6	80	120				
Beryllium	0.821	0.446	0.8929	0	92.0	80	120				
Boron	18.2	8.93	17.86	0	102	80	120				
Cadmium	1.60	0.446	1.786	0	89.8	80	120				
Calcium	228	22.3	223.2	0	102	80	120				
Chromium	6.91	2.23	7.143	0	96.8	80	120				
Cobalt	16.8	2.23	17.86	0	94.3	80	120				
Copper	ND	7.14	5.357	0	94.8	80	120				
Iron	19.1	8.93	17.86	0	107	80	120				
Lead	16.2	2.23	17.86	0	90.5	80	120				
Magnesium	35.9	8.93	35.71	0	101	80	120				
Manganese	ND	2.23	1.786	0	100	80	120				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				



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 Website: <http://www.settek.com>

# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72421

Sample ID: <b>LCS-72421</b>	SampType: <b>LCS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg</b>	Prep Date: <b>1/26/2024</b>	RunNo: <b>178966</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>72421</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4849876</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	6.93	2.23	7.143	0	97.1	80	120				
Nickel	3.23	2.23	3.571	0	90.5	80	120				
Phosphorus	187	22.3	223.2	0	83.6	80	120				
Potassium	411	44.6	446.4	0	92.0	80	120				
Silicon	174	4.46	89.29	0	195	80	120				BSMB+
Silver	ND	2.23	1.786	0	86.5	80	120				
Sodium	427	89.3	446.4	0	95.7	80	120				
Strontium	43.3	4.46	44.64	0	97.0	80	120				
Thallium	16.5	0.893	17.86	0	92.2	80	120				
Titanium	43.4	4.46	44.64	0	97.2	80	120				
Vanadium	42.4	4.46	44.64	0	94.9	80	120				
Zinc	8.32	2.23	8.929	0	93.2	80	120				

Sample ID: <b>24011575-011AMS</b>	SampType: <b>MS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>1/26/2024</b>	RunNo: <b>178966</b>						
Client ID: <b>BK1 (2-4)</b>	Batch ID: <b>72421</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4849878</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	6020	25.3	101.2	5423	594	75	125				ES
Antimony	57.3	2.53	101.2	0	56.6	75	125				S
Arsenic	85.6	2.53	101.2	5.724	78.9	75	125				
Barium	113	5.06	101.2	28.12	84.1	75	125				
Beryllium	78.5	0.506	101.2	0.2663	77.3	75	125				E

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72421

Sample ID: 24011575-011AMS	SampType: MS	TestCode: Mtl-ICP_S(60)	Units: mg/Kg-dry	Prep Date: 1/26/2024	RunNo: 178966						
Client ID: BK1 (2-4)	Batch ID: 72421	TestNo: SW6010	SW3050B	Analysis Date: 1/29/2024	SeqNo: 4849878						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Boron	91.9	10.1	101.2	14.30	76.6	75	125				
Cadmium	65.4	0.506	101.2	0	64.6	75	125				S
Calcium	ND	25.3	101.2	0	0	75	125				S
Chromium	82.3	2.53	101.2	7.616	73.7	75	125				S
Cobalt	71.1	2.53	101.2	3.196	67.1	75	125				S
Copper	94.0	8.10	101.2	9.597	83.4	75	125				
Iron	6730	10.1	101.2	6951	-222	75	125				ES
Lead	75.2	2.53	101.2	5.602	68.8	75	125				S
Lithium	115	10.1	101.2	8.233	106	75	125				
Magnesium	8270	10.1	101.2	7143	1120	75	125				ES
Manganese	283	2.53	101.2	265.4	17.8	75	125				S
Molybdenum	81.5	2.53	101.2	1.990	78.6	75	125				
Nickel	74.6	2.53	101.2	8.233	65.6	75	125				S
Phosphorus	244	25.3	5062	191.0	1.05	75	125				S
Potassium	1410	50.6	1012	1026	38.3	75	125				S
Selenium	70.3	2.53	101.2	0	69.5	75	125				S
Silicon	829	5.06	47.58	440.7	816	75	125				BSQL+MB+
Silver	91.1	2.53	50.62	0	180	75	125				S
Sodium	248	101	5062	121.2	2.50	75	125				S
Strontium	132	5.06	101.2	71.52	59.3	75	125				S
Thallium	66.2	1.01	101.2	0	65.4	75	125				S
Tin	73.7	5.06	101.2	0.8270	72.0	75	125				S
Titanium	194	5.06	101.2	116.2	76.7	75	125				QMR

**Qualifiers:**

- |   |   |    |                                |    |  |
|---|---|----|--------------------------------|----|--|
| B | Analyte detected in the associated Method Blank                       | E  | Value above quantitation range | H  | Holding times for preparation or analysis exceeded |
| M | Manual Integration used to determine area response                    | ND | Not Detected                   | PL | Permit Limit                                       |
| R | RPD outside accepted recovery limits                                  | RL | Reporting Detection Limit      | S  | Spike Recovery outside accepted recovery limits    |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |  |



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72421

Sample ID: <b>24011575-011AMS</b>	SampType: <b>MS</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>1/26/2024</b>	RunNo: <b>178966</b>						
Client ID: <b>BK1 (2-4)</b>	Batch ID: <b>72421</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4849878</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vanadium	89.1	5.06	101.2	13.51	74.7	75	125				S
Zinc	107	2.53	101.2	33.33	73.2	75	125				S

Sample ID: <b>24011575-011AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>Mtl-ICP_S(60)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>1/26/2024</b>	RunNo: <b>178966</b>						
Client ID: <b>BK1 (2-4)</b>	Batch ID: <b>72421</b>	TestNo: <b>SW6010</b>	<b>SW3050B</b>	Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4849879</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	4950	24.8	99.39	5423	-477	75	125	6024	19.6	20	ES
Antimony	55.9	2.48	99.39	0	56.2	75	125	57.33	2.55	20	S
Arsenic	82.9	2.48	99.39	5.724	77.6	75	125	85.58	3.20	20	
Barium	106	4.97	99.39	28.12	78.3	75	125	113.2	6.62	20	
Beryllium	75.1	0.497	99.39	0.2663	75.3	75	125	78.49	4.45	20	E
Boron	89.6	9.94	99.39	14.30	75.7	75	125	91.90	2.56	20	
Cadmium	62.1	0.497	99.39	0	62.5	75	125	65.42	5.23	20	S
Calcium	ND	24.8	99.39	0	0	75	125	0	0	20	S
Chromium	78.8	2.48	99.39	7.616	71.6	75	125	82.26	4.34	20	S
Cobalt	66.8	2.48	99.39	3.196	63.9	75	125	71.12	6.33	20	S
Copper	90.5	7.95	99.39	9.597	81.4	75	125	94.02	3.82	20	
Iron	6690	9.94	99.39	6951	-259	75	125	6727	0.497	20	ES
Lead	70.9	2.48	99.39	5.602	65.7	75	125	75.22	5.88	20	S
Lithium	113	9.94	99.39	8.233	105	75	125	115.3	2.38	20	
Magnesium	7960	9.94	99.39	7143	818	75	125	8272	3.90	20	ES

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** 72421

Sample ID: 24011575-011AMSD	SampType: MSD	TestCode: Mtl-ICP_S(60)	Units: mg/Kg-dry	Prep Date: 1/26/2024	RunNo: 178966						
Client ID: BK1 (2-4)	Batch ID: 72421	TestNo: SW6010	SW3050B	Analysis Date: 1/29/2024	SeqNo: 4849879						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	315	2.48	99.39	265.4	49.7	75	125	283.4	10.5	20	S
Molybdenum	76.6	2.48	99.39	1.990	75.0	75	125	81.53	6.28	20	
Nickel	71.7	2.48	99.39	8.233	63.8	75	125	74.60	4.02	20	S
Phosphorus	295	24.8	4970	191.0	2.08	75	125	244.2	18.7	20	S
Potassium	1360	49.7	993.9	1026	34.0	75	125	1414	3.60	20	S
Selenium	67.3	2.48	99.39	0	67.7	75	125	70.34	4.45	20	S
Silicon	868	4.97	46.72	440.7	914	75	125	829.2	4.55	20BSQL+MB+	
Silver	88.9	2.48	49.70	0	179	75	125	91.14	2.43	20	S
Sodium	246	99.4	4970	121.2	2.52	75	125	247.7	0.564	20	S
Strontium	132	4.97	99.39	71.52	60.4	75	125	131.5	0.0236	20	S
Thallium	62.3	0.994	99.39	0	62.7	75	125	66.24	6.08	20	S
Tin	69.9	4.97	99.39	0.8270	69.5	75	125	73.73	5.40	20	S
Titanium	151	4.97	99.39	116.2	35.3	75	125	193.9	24.7	20	RS
Vanadium	86.0	4.97	99.39	13.51	72.9	75	125	89.10	3.57	20	S
Zinc	104	2.48	99.39	33.33	70.8	75	125	107.5	3.54	20	S

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R178776

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>Anions_NPW</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>178776</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R178776</b>	TestNo: <b>SW9056A</b>		Analysis Date: <b>1/24/2024</b>	SeqNo: <b>4845170</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.100		0	0						
Chloride	ND	1.00		0	0						
Fluoride	ND	0.100		0	0						
Nitrogen, Nitrate	ND	0.100		0	0						
Nitrogen, Nitrite	ND	0.100		0	0						
Orthophosphate-P	ND	0.100		0	0						
Sulfate	ND	1.00		0	0						

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>Anions_NPW</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>178776</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R178776</b>	TestNo: <b>SW9056A</b>		Analysis Date: <b>1/24/2024</b>	SeqNo: <b>4845172</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	18.4	0.100	20.00	0	92.1	90	110				
Chloride	18.1	1.00	20.00	0	90.6	90	110				
Fluoride	19.3	0.100	20.00	0	96.4	90	110				
Nitrogen, Nitrate	4.24	0.100	4.600	0	92.2	90	110				
Nitrogen, Nitrite	6.48	0.100	6.600	0	98.2	90	110				
Orthophosphate-P	6.01	0.100	6.400	0	93.9	90	110				
Sulfate	18.3	1.00	20.00	0	91.4	90	110				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R178776

Sample ID: <b>LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>Anions_NPW</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>178776</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>R178776</b>	TestNo: <b>SW9056A</b>	Analysis Date: <b>1/24/2024</b>	SeqNo: <b>4845173</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	18.1	0.100	20.00	0	90.4	90	110	18.42	1.85	20	
Chloride	18.1	1.00	20.00	0	90.4	90	110	18.12	0.179	20	
Fluoride	19.4	0.100	20.00	0	96.8	90	110	19.27	0.437	20	
Nitrogen, Nitrate	4.21	0.100	4.600	0	91.5	90	110	4.243	0.797	20	
Nitrogen, Nitrite	6.51	0.100	6.600	0	98.6	90	110	6.478	0.485	20	
Orthophosphate-P	6.18	0.100	6.400	0	96.6	90	110	6.012	2.77	20	
Sulfate	18.4	1.00	20.00	0	92.2	90	110	18.28	0.876	20	

**Qualifiers:**

- |   |   |    |                                |    |  |
|---|---|----|--------------------------------|----|--|
| B | Analyte detected in the associated Method Blank                       | E  | Value above quantitation range | H  | Holding times for preparation or analysis exceeded |
| M | Manual Integration used to determine area response                    | ND | Not Detected                   | PL | Permit Limit                                       |
| R | RPD outside accepted recovery limits                                  | RL | Reporting Detection Limit      | S  | Spike Recovery outside accepted recovery limits    |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |  |



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R178776

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>Anions_NPW</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>178776</b>						
Client ID: <b>PBW</b>	Batch ID: <b>R178776</b>	TestNo: <b>SW9056A</b>		Analysis Date: <b>1/24/2024</b>	SeqNo: <b>4845207</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	ND	0.100									
Chloride	ND	1.00									
Fluoride	ND	0.100									
Nitrogen, Nitrate	ND	0.500									
Nitrogen, Nitrite	ND	0.500									
Orthophosphate-P	ND	0.100									
Sulfate	ND	1.00									

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>Anions_NPW</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>178776</b>						
Client ID: <b>LCSW</b>	Batch ID: <b>R178776</b>	TestNo: <b>SW9056A</b>		Analysis Date: <b>1/24/2024</b>	SeqNo: <b>4845209</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	18.4	0.100	20.00	0	92.1	80	120				
Chloride	18.1	1.00	20.00	0	90.6	80	120				
Fluoride	19.3	0.100	20.00	0	96.4	80	120				
Nitrogen, Nitrate	4.24	0.500	4.600	0	92.2	80	120				
Nitrogen, Nitrite	6.48	0.500	6.600	0	98.2	80	120				
Orthophosphate-P	6.01	0.100	6.400	0	93.9	80	120				
Sulfate	18.3	1.00	20.00	0	91.4	80	120				

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R178776

Sample ID: <b>LCSD</b>	SampType: <b>LCSD</b>	TestCode: <b>Anions_NPW</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>178776</b>						
Client ID: <b>LCSS02</b>	Batch ID: <b>R178776</b>	TestNo: <b>SW9056A</b>	Analysis Date: <b>1/24/2024</b>	SeqNo: <b>4845210</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	18.1	0.100	20.00	0	90.4	80	120	18.42	1.85	15	
Chloride	18.1	1.00	20.00	0	90.4	80	120	18.12	0.179	15	
Fluoride	19.4	0.100	20.00	0	96.8	80	120	19.27	0.437	15	
Nitrogen, Nitrate	4.21	0.500	4.600	0	91.5	80	120	4.243	0.797	15	
Nitrogen, Nitrite	6.51	0.500	6.600	0	98.6	80	120	6.478	0.485	15	
Orthophosphate-P	6.18	0.100	6.400	0	96.6	80	120	6.012	2.77	15	
Sulfate	18.4	1.00	20.00	0	92.2	80	120	18.28	0.876	15	

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- W Sample container temperature is out of limit as specified at testcode

- E Value above quantitation range
- ND Not Detected
- RL Reporting Detection Limit

- H Holding times for preparation or analysis exceeded
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R178776

Sample ID: <b>24011390-001ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>Anions_DW(3)</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>178776</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R178776</b>	TestNo: <b>SW9056A</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4845202</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	157	5.00		0	0			157.0	0.139	30	

Sample ID: <b>24011390-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>Anions_DW(3)</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>178776</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R178776</b>	TestNo: <b>SW9056A</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4845203</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	260	5.00	100.0	157.0	103	80	120				Em

**Qualifiers:**  
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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R178879

Sample ID: <b>MB-R178879</b>	SampType: <b>MBLK</b>	TestCode: <b>PctMoist_S(2</b> Units: %	Prep Date:	RunNo: <b>178879</b>							
Client ID: <b>PBS</b>	Batch ID: <b>R178879</b>	TestNo: <b>A2540B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4847161</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	ND	0.100									

Sample ID: <b>24011575-010ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>PctMoist_S(2</b> Units: %	Prep Date:	RunNo: <b>178879</b>							
Client ID: <b>BK1 (0-2)</b>	Batch ID: <b>R178879</b>	TestNo: <b>A2540B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4847170</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	7.63	0.100						8.991	16.4	5	R

Sample ID: <b>24011575-019ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>PctMoist_S(2</b> Units: %	Prep Date:	RunNo: <b>178879</b>							
Client ID: <b>SB5 (0-2)R</b>	Batch ID: <b>R178879</b>	TestNo: <b>A2540B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4847180</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	8.25	0.100						6.875	18.2	5	R

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
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 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
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 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R178882

Sample ID: <b>MB-R178882</b>	SampType: <b>MBLK</b>	TestCode: <b>PctMoist_S(2</b> Units: %	Prep Date:	RunNo: <b>178882</b>							
Client ID: <b>PBS</b>	Batch ID: <b>R178882</b>	TestNo: <b>A2540B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4847230</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	ND	0.500									

Sample ID: <b>24011575-028ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>PctMoist_S(2</b> Units: %	Prep Date:	RunNo: <b>178882</b>							
Client ID: <b>SB9 (0-2)</b>	Batch ID: <b>R178882</b>	TestNo: <b>A2540B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4847237</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	9.13	0.500						9.953	8.64	5	R

Sample ID: <b>24011614-002ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>PctMoist_S(2</b> Units: %	Prep Date:	RunNo: <b>178882</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>R178882</b>	TestNo: <b>A2540B</b>	Analysis Date: <b>1/25/2024</b>	SeqNo: <b>4847247</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	14.9	0.500						15.16	1.42	5	

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

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 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
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 S Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R178985

Sample ID: <b>MB-T</b>	SampType: <b>MBLK</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>178985</b>						
Client ID: <b>PBS</b>	Batch ID: <b>R178985</b>	TestNo: <b>SW9014</b>		Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4850345</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	ND	0.500									

Sample ID: <b>LCS-T</b>	SampType: <b>LCS</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>178985</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>R178985</b>	TestNo: <b>SW9014</b>		Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4850346</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	9.84	0.500	10.00	0	98.4	85	115				

Sample ID: <b>24011521-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>178985</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R178985</b>	TestNo: <b>SW9014</b>		Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4850349</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	7.79	0.435	10.00	0.1389	76.5	75	125				QMR

Sample ID: <b>24011521-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>178985</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R178985</b>	TestNo: <b>SW9014</b>		Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4850350</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	6.51	0.391	10.00	0.1389	63.7	75	125	7.792	18.0	10	RS

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded  
 PL Permit Limit  
 S Spike Recovery outside accepted recovery limits



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## QC SUMMARY REPORT

WO#: 24011575  
08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R178985

Sample ID: <b>24011521-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>178985</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R178985</b>	TestNo: <b>SW9014</b>	Analysis Date: <b>1/26/2024</b>	SeqNo: <b>4850350</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- W Sample container temperature is out of limit as specified at testcode

- E Value above quantitation range
- ND Not Detected
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- H Holding times for preparation or analysis exceeded
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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R179057

Sample ID: <b>MB</b>	SampType: <b>MBLK</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>179057</b>						
Client ID: <b>PBS</b>	Batch ID: <b>R179057</b>	TestNo: <b>SW9014</b>		Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4852781</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	ND	0.500									

Sample ID: <b>LCS</b>	SampType: <b>LCS</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/Kg</b>	Prep Date:	RunNo: <b>179057</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>R179057</b>	TestNo: <b>SW9014</b>		Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4852782</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	10.8	0.500	12.50	0	86.7	85	115				

Sample ID: <b>24011575-019AMS</b>	SampType: <b>MS</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/Kg-dry</b>	Prep Date:	RunNo: <b>179057</b>						
Client ID: <b>SB5 (0-2)R</b>	Batch ID: <b>R179057</b>	TestNo: <b>SW9014</b>		Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4852785</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	6.42	0.521	10.74	0	59.8	75	125				S

Sample ID: <b>24011575-019AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/Kg-dry</b>	Prep Date:	RunNo: <b>179057</b>						
Client ID: <b>SB5 (0-2)R</b>	Batch ID: <b>R179057</b>	TestNo: <b>SW9014</b>		Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4852786</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide, Total	6.72	0.430	10.74	0	62.5	75	125	6.422	4.48	10	S

**Qualifiers:**  
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E Value above quantitation range  
 ND Not Detected  
 RL Reporting Detection Limit

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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R179057

Sample ID: <b>24011575-019AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/Kg-dry</b>	Prep Date:	RunNo: <b>179057</b>						
Client ID: <b>SB5 (0-2)R</b>	Batch ID: <b>R179057</b>	TestNo: <b>SW9014</b>	Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4852786</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**Qualifiers:**

- |   |   |    |                                |    |  |
|---|---|----|--------------------------------|----|--|
| B | Analyte detected in the associated Method Blank                       | E  | Value above quantitation range | H  | Holding times for preparation or analysis exceeded |
| M | Manual Integration used to determine area response                    | ND | Not Detected                   | PL | Permit Limit                                       |
| R | RPD outside accepted recovery limits                                  | RL | Reporting Detection Limit      | S  | Spike Recovery outside accepted recovery limits    |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |  |



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# QC SUMMARY REPORT

WO#: 24011575

08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R179057

Sample ID: <b>MB-T.NPW</b>	SampType: <b>MBLK</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>179057</b>
Client ID: <b>PBW</b>	Batch ID: <b>R179057</b>	TestNo: <b>SW9014</b>		Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4852760</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, Total	0.0269	0.0100			

Sample ID: <b>LCS-T.NPW</b>	SampType: <b>LCS</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>179057</b>
Client ID: <b>LCSW</b>	Batch ID: <b>R179057</b>	TestNo: <b>SW9014</b>		Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4852761</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, Total	0.224	0.0100	0.2500	0	89.7 85 115 BMB+

Sample ID: <b>24011817-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>179057</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>R179057</b>	TestNo: <b>SW9014</b>		Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4852764</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, Total	0.171	0.0100	0.2000	0	85.5 75 125 BMB+

Sample ID: <b>24011817-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>179057</b>
Client ID: <b>BatchQC</b>	Batch ID: <b>R179057</b>	TestNo: <b>SW9014</b>		Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4852765</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Cyanide, Total	0.163	0.0100	0.2000	0	81.6 75 125 0.1710 4.67 10 BMB+

**Qualifiers:**  
 B Analyte detected in the associated Method Blank  
 M Manual Integration used to determine area response  
 R RPD outside accepted recovery limits  
 W Sample container temperature is out of limit as specified at testcode

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 ND Not Detected  
 RL Reporting Detection Limit

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# QC SUMMARY REPORT

WO#: 24011575  
 08-Feb-24

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

**BatchID:** R179057

Sample ID: <b>24011817-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>Cyanide,Total</b>	Units: <b>mg/L</b>	Prep Date:	RunNo: <b>179057</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>R179057</b>	TestNo: <b>SW9014</b>	Analysis Date: <b>1/29/2024</b>	SeqNo: <b>4852765</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**Qualifiers:**

- |   |   |    |                                |    |  |
|---|---|----|--------------------------------|----|--|
| B | Analyte detected in the associated Method Blank                       | E  | Value above quantitation range | H  | Holding times for preparation or analysis exceeded |
| M | Manual Integration used to determine area response                    | ND | Not Detected                   | PL | Permit Limit                                       |
| R | RPD outside accepted recovery limits                                  | RL | Reporting Detection Limit      | S  | Spike Recovery outside accepted recovery limits    |
| W | Sample container temperature is out of limit as specified at testcode |    |                                |    |  |



These commonly used Qualifiers and Acronyms may or may not be present in this report.

**Qualifiers**

- U** The compound was analyzed for but was not detected.
- J** The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
- H** The hold time for sample preparation and/or analysis was exceeded.
- D** The result is reported from a dilution.
- E** The result exceeded the linear range of the calibration or is estimated due to interference.
- MC** The result is below the Minimum Compound Limit.
- \*** The result exceeds the Regulatory Limit or Maximum Contamination Limit.
- m** Manual integration was used to determine the area response.
- d** Manual integration in which peak was deleted
- N** The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
- P** The second column confirmation exceeded 25% difference.
- C** The result has been confirmed by GC/MS.
- X** The result was not confirmed when GC/MS Analysis was performed.
- B/MB+** The analyte was detected in the associated blank.
- G** The ICB or CCB contained reportable amounts of analyte.
- QC-/+** The CCV recovery failed low (-) or high (+).
- R/QDR** The RPD was outside of accepted recovery limits.
- QL-/+** The LCS or LCSD recovery failed low (-) or high (+).
- QLR** The LCS/LCSD RPD was outside of accepted recovery limits.
- QM-/+** The MS or MSD recovery failed low (-) or high (+).
- QMR** The MS/MSD RPD was outside of accepted recovery limits.
- QV-/+** The ICV recovery failed low (-) or high (+).
- S** The spike result was outside of accepted recovery limits.
- Z** Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

**Acronyms**

- |             |                                     |               |                                      |
|-------------|-------------------------------------|---------------|--------------------------------------|
| <b>ND</b>   | Not Detected                        | <b>RL</b>     | Reporting Limit                      |
| <b>QC</b>   | Quality Control                     | <b>MDL</b>    | Method Detection Limit               |
| <b>MB</b>   | Method Blank                        | <b>LOD</b>    | Level of Detection                   |
| <b>LCS</b>  | Laboratory Control Sample           | <b>LOQ</b>    | Level of Quantitation                |
| <b>LCSD</b> | Laboratory Control Sample Duplicate | <b>PQL</b>    | Practical Quantitation Limit         |
| <b>QCS</b>  | Quality Control Sample              | <b>CRQL</b>   | Contract Required Quantitation Limit |
| <b>DUP</b>  | Duplicate                           | <b>PL</b>     | Permit Limit                         |
| <b>MS</b>   | Matrix Spike                        | <b>RegLvl</b> | Regulatory Limit                     |
| <b>MSD</b>  | Matrix Spike Duplicate              | <b>MCL</b>    | Maximum Contamination Limit          |
| <b>RPD</b>  | Relative Percent Different          | <b>MinCL</b>  | Minimum Compound Limit               |
| <b>ICV</b>  | Initial Calibration Verification    | <b>RA</b>     | Reanalysis                           |
| <b>ICB</b>  | Initial Calibration Blank           | <b>RE</b>     | Reextraction                         |
| <b>CCV</b>  | Continuing Calibration Verification | <b>TIC</b>    | Tentatively Identified Compound      |
| <b>CCB</b>  | Continuing Calibration Blank        | <b>RT</b>     | Retention Time                       |
| <b>RLC</b>  | Reporting Limit Check               | <b>CF</b>     | Calibration Factor                   |
| <b>DF</b>   | Dilution Factor                     | <b>RF</b>     | Response Factor                      |

**This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.**



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# DATES REPORT

WO#: **24011575**  
**08-Feb-24**

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24011575-001A	SP-1-012224	1/22/2024 9:35:00 AM	Solid	Metals Analysis (6010D)		1/25/2024 9:55:00 AM	1/26/2024 4:36:00 PM
				Metals Analysis (6010D)		1/25/2024 9:55:00 AM	1/30/2024 9:01:00 AM
				Metals Analysis (6010D)		1/25/2024 9:55:00 AM	1/30/2024 9:41:00 AM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM	1/25/2024 10:15:00 AM	1/25/2024 7:24:00 PM	
				Total Cyanide (9014)		1/26/2024 11:20:00 AM	
24011575-002A	SP-2-012224	1/22/2024 9:50:00 AM		Metals Analysis (6010D)		1/25/2024 9:55:00 AM	1/26/2024 4:39:00 PM
				Metals Analysis (6010D)		1/25/2024 9:55:00 AM	1/30/2024 9:04:00 AM
				Metals Analysis (6010D)		1/25/2024 9:55:00 AM	1/30/2024 9:45:00 AM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM	1/25/2024 10:15:00 AM	1/25/2024 7:57:00 PM	
				Total Cyanide (9014)		1/26/2024 11:20:00 AM	
24011575-003A	SP-3-012224	1/22/2024 10:10:00 AM		Metals Analysis (6010D)		1/25/2024 9:55:00 AM	1/26/2024 4:43:00 PM
				Metals Analysis (6010D)		1/25/2024 9:55:00 AM	1/30/2024 9:08:00 AM
				Metals Analysis (6010D)		1/25/2024 9:55:00 AM	1/30/2024 9:48:00 AM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM	1/25/2024 10:15:00 AM	1/25/2024 8:31:00 PM	
				Total Cyanide (9014)		1/26/2024 11:20:00 AM	
24011575-004A	NWS-012224	1/22/2024 10:40:00 AM	Wipe	Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/26/2024 4:46:00 PM
				Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/30/2024 9:18:00 AM
				Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/30/2024 9:58:00 AM
24011575-005A	EWS-012224	1/22/2024 10:47:00 AM		Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/26/2024 4:49:00 PM
				Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/30/2024 9:21:00 AM

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WO#: **24011575**  
**08-Feb-24**

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24011575-005A	EWS-012224	1/22/2024 10:47:00 AM	Wipe	Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/30/2024 10:02:00 AM
24011575-006A	SWS-012224	1/22/2024 10:56:00 AM		Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/26/2024 4:53:00 PM
				Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/30/2024 10:05:00 AM
				Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/30/2024 9:25:00 AM
24011575-007A	WWS-012224	1/22/2024 11:03:00 AM		Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/26/2024 4:56:00 PM
				Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/30/2024 10:08:00 AM
				Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/30/2024 9:28:00 AM
24011575-008A	RVEWS-012224	1/22/2024 11:10:00 AM		Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/30/2024 9:31:00 AM
				Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/26/2024 5:10:00 PM
				Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/30/2024 10:12:00 AM
24011575-009A	FBWS-012224	1/22/2024 11:15:00 AM		Metals Analysis (6010)		1/25/2024 9:55:00 AM	1/26/2024 5:13:00 PM
24011575-010A	BK1 (0-2)	1/23/2024 9:50:00 AM	Solid	Metals Analysis (6010D)		1/25/2024 9:55:00 AM	1/26/2024 5:16:00 PM
				Metals Analysis (6010D)		1/25/2024 9:55:00 AM	1/30/2024 10:19:00 AM
				Metals Analysis (6010D)		1/25/2024 9:55:00 AM	1/30/2024 9:38:00 AM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/25/2024 9:04:00 PM
				Total Cyanide (9014)			1/26/2024 11:20:00 AM
24011575-011A	BK1 (2-4)	1/23/2024		Metals Analysis (6010D)		1/26/2024 12:15:00 PM	1/30/2024 3:59:00 PM
				Metals Analysis (6010D)		1/26/2024 12:15:00 PM	1/29/2024 9:45:00 AM
				Metals Analysis (6010D)		1/26/2024 12:15:00 PM	1/30/2024 1:50:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/26/2024 12:19:00 AM
				Total Cyanide (9014)			1/26/2024 11:20:00 AM

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WO#: **24011575**  
**08-Feb-24**

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24011575-012A	SB1 (2-4)	1/23/2024 1:15:00 PM	Solid	Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/26/2024 5:33:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 6:32:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:53:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM	1/25/2024 10:15:00 AM	1/25/2024 11:18:00 PM	
				Total Cyanide (9014)		1/26/2024 11:20:00 AM	
24011575-013A	SB2 (0-2)	1/23/2024 1:03:00 PM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 6:42:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:03:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/26/2024 5:54:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM	1/25/2024 10:15:00 AM	1/25/2024 11:51:00 PM	
				Total Cyanide (9014)		1/26/2024 11:20:00 AM	
24011575-014A	SB2 (2-4)	1/23/2024 1:06:00 PM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 7:45:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 6:45:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:06:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM	1/25/2024 10:15:00 AM	1/26/2024 12:24:00 AM	
				Total Cyanide (9014)		1/26/2024 11:20:00 AM	
24011575-015A	SB3 (2-4)	1/23/2024 1:30:00 PM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 7:48:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 6:49:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:10:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM	1/25/2024 10:15:00 AM	1/26/2024 12:58:00 AM	

Revision v2



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# DATES REPORT

WO#: **24011575**  
**08-Feb-24**

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24011575-015A	SB3 (2-4)	1/23/2024 1:30:00 PM	Solid	Total Cyanide (9014)			1/26/2024 11:20:00 AM
24011575-016A	SB4 (0-2)	1/23/2024 12:50:00 PM	Solid	Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 7:52:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 6:52:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:13:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/26/2024 1:31:00 AM
				Total Cyanide (9014)			1/26/2024 11:20:00 AM
24011575-017A	SB4 (2-4)	1/23/2024 12:55:00 PM	Solid	Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 7:55:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:16:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 6:55:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/26/2024 2:05:00 AM
				Total Cyanide (9014)			1/26/2024 11:20:00 AM
24011575-018A	SB5 (0-2)	1/23/2024 11:37:00 AM	Solid	Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 7:58:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 6:59:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:20:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/26/2024 2:38:00 AM
				Total Cyanide (9014)			1/26/2024 11:20:00 AM
24011575-019A	SB5 (0-2)R		Solid	Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:02:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:02:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:23:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM

Revision v2



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# DATES REPORT

WO#: **24011575**  
**08-Feb-24**

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24011575-019A	SB5 (0-2)R	1/23/2024 11:37:00 AM	Solid	SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/26/2024 3:12:00 AM
				Total Cyanide (9014)			1/29/2024 11:20:00 AM
24011575-020A	SB5 (2-4)	1/23/2024 11:40:00 AM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:05:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:05:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:27:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/26/2024 3:45:00 AM
				Total Cyanide (9014)			1/29/2024 11:20:00 AM
24011575-021A	SB6 (0-2)	1/23/2024 11:20:00 AM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:08:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:09:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:30:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/26/2024 4:19:00 AM
				Total Cyanide (9014)			1/29/2024 11:20:00 AM
24011575-022A	SB6 (2-4)	1/23/2024 11:23:00 AM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:33:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:12:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:12:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:14:00 PM
				SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/26/2024 4:52:00 AM
				Total Cyanide (9014)			1/29/2024 11:20:00 AM
24011575-023A	SB7 (0-2)	1/23/2024 11:03:00 AM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:25:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:22:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:43:00 PM

Revision v2



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# DATES REPORT

WO#: **24011575**  
**08-Feb-24**

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24011575-023A	SB7 (0-2)	1/23/2024 11:03:00 AM	Solid	Percent Moisture by SM2540Mod			1/25/2024 5:57:00 PM
				SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/26/2024 5:25:00 AM
				Total Cyanide (9014)			1/29/2024 11:20:00 AM
24011575-024A	SB7 (2-4)	1/23/2024 11:07:00 AM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:26:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:47:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:29:00 AM
				Percent Moisture by SM2540Mod			1/25/2024 5:57:00 PM
				SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/25/2024 6:45:00 PM
				Total Cyanide (9014)			1/29/2024 11:20:00 AM
24011575-025A	SB8 (0-2)	1/23/2024 10:30:00 AM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:32:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:29:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:50:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:57:00 PM
				SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/25/2024 8:26:00 PM
				Total Cyanide (9014)			1/29/2024 11:20:00 AM
24011575-026A	SB8 (2-4)	1/23/2024 10:35:00 AM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:35:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:32:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:54:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:57:00 PM
				SVOC 8270EPAH SIM		1/25/2024 10:15:00 AM	1/25/2024 8:59:00 PM
				Total Cyanide (9014)			1/29/2024 11:20:00 AM
24011575-027A	SB8 (2-4)R			Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:39:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:36:00 PM

Revision v2



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**08-Feb-24**

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24011575-027A	SB8 (2-4)R	1/23/2024 10:35:00 AM	Solid	Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 8:57:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:57:00 PM
				SVOC 8270EPAH SIM	1/25/2024 10:15:00 AM	1/25/2024 9:32:00 PM	
				Total Cyanide (9014)		1/29/2024 11:20:00 AM	
24011575-028A	SB9 (0-2)	1/23/2024 10:10:00 AM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:42:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:39:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 9:00:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:57:00 PM
				SVOC 8270EPAH SIM	1/25/2024 10:15:00 AM	1/25/2024 10:06:00 PM	
				Total Cyanide (9014)		1/29/2024 11:20:00 AM	
24011575-029A	SB9 (2-4)	1/23/2024 10:14:00 AM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:46:00 AM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:43:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 9:04:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:57:00 PM
				SVOC 8270EPAH SIM	1/25/2024 10:15:00 AM	1/25/2024 10:39:00 PM	
				Total Cyanide (9014)		1/29/2024 11:20:00 AM	
24011575-030A	SB10 (0-2)	1/23/2024 10:45:00 AM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 9:07:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:46:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:49:00 AM
				Percent Moisture by SM2540Mod			1/25/2024 5:57:00 PM
				SVOC 8270EPAH SIM	1/25/2024 10:15:00 AM	1/25/2024 11:13:00 PM	
				Total Cyanide (9014)		1/29/2024 11:20:00 AM	
24011575-031A	SB10 (2-4)	1/23/2024 10:50:00 AM		Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/27/2024 8:52:00 AM

Revision v2



Summit Environmental Technologies, Inc.  
3310 Win St.  
Cuyahoga Falls, Ohio 44223  
TEL: (330) 253-8211 FAX: (330) 253-4489  
Website: <http://www.settek.com>

# DATES REPORT

WO#: **24011575**  
**08-Feb-24**

**Client:** WSP Global Inc  
**Project:** 7775202021.03.\*\*\*\* (Revised)

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24011575-031A	SB10 (2-4)	1/23/2024 10:50:00 AM	Solid	Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 7:49:00 PM
				Metals Analysis (6010D)		1/25/2024 10:55:00 AM	1/30/2024 9:10:00 PM
				Percent Moisture by SM2540Mod			1/25/2024 5:57:00 PM
				SVOC 8270EPAH SIM	1/25/2024 10:15:00 AM	1/25/2024 11:46:00 PM	
				Total Cyanide (9014)		1/29/2024 11:20:00 AM	
24011575-032A	SW1-012324	1/23/2024 2:30:00 PM	Non-Potable Water	Metals (EPA 6010D)	1/25/2024 3:25:00 PM	1/26/2024 11:32:00 AM	
				Metals (EPA 6010D)	1/25/2024 3:25:00 PM	1/26/2024 3:55:00 PM	
24011575-032B				Anions (SW9056)		1/25/2024 8:06:00 AM	
24011575-032C				Total Cyanide (SW846 9014)		1/29/2024 11:20:00 AM	
24011575-033A	EB001-012324	1/23/2024 12:45:00 PM		Metals (EPA 6010D)	1/25/2024 3:25:00 PM	1/26/2024 11:36:00 AM	
24011575-033B				Total Cyanide (SW846 9014)		1/29/2024 11:20:00 AM	
24011575-033C				PAHs by SW846: 8270E SIM	1/25/2024 5:40:00 PM	1/26/2024 1:15:00 PM	
24011575-034A	WC1-012324	1/23/2024 2:20:00 PM		Metals (EPA 6010D)	1/25/2024 3:25:00 PM	1/26/2024 11:46:00 AM	
				Metals (EPA 6010D)	1/25/2024 3:25:00 PM	1/26/2024 3:58:00 PM	
24011575-034B				Anions (SW9056)		1/25/2024 8:41:00 AM	

Revision v2



**Summit**  
ENVIRONMENTAL TECHNOLOGIES, INC.  
ANALYTICAL LABORATORIES

**Analysis Request / Chain of Custody**

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Effective Date: 01/01/2023  
Page 1 of 1

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SET WO NO: **24011575**  
For Summit Environmental Technologies, Inc. use only

Client Name <b>WSP USA E&amp;I</b>		Project Identification <b>7775202021.03. <del>444</del></b>	
Client Street Address <b>524 Byrds Rd Ste 204 Piqua, OH 45342</b>		Project Street Address <b>PIQUA</b>	
City <b>Piqua</b> State <b>OH</b> Zip <b>45342</b>		City <b>PIQUA</b> State <b>OH</b> Zip	
Client Phone <b>937 287 8391</b>		Report To <b>R. Dornbusch</b>	
Contact Person <b>R. Dornbusch</b>		PWS ID <b>0126011597</b> Quote Number	
Client Email Address <b>russell.dornbusch@wsp.com</b>		PWS ID Facility ID	
Sampled By (Print Name and Provide Signature) <b>R. Dornbusch / J. Timmons</b>		Reporting/Accreditation Requirements: <input type="checkbox"/> Ohio VAP <input type="checkbox"/> Ohio EPA Pb, Cu <input type="checkbox"/> Drinking Water Compliance <input type="checkbox"/> Other Compliance (List State/ Program):	
For DW only, results to be reported to state by lab? If yes, lab fee may apply: Y <input type="checkbox"/> N <input type="checkbox"/>			

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix: S=Solid, SL=Sludge, L=Liquid, O=Oil, A=Air, NPW=Non-Potable Water, DW=Drinking Water	Preservation: 1) HNO3; 2) H2SO4; 3) HCl; 4) Zinc Acetate; 5) NaOH; 6) EDA; 7) none; 8) other (specify in comments)	Number of Containers per Sample	Analytical Parameters and Methods Requested			For DW Only: Special Compliance or Routine (S/R)
		SP-1-012224	01/22/24	0935	X				2	Inorganics Method 6010	PAH Method 8270	Cyanide Methods 9007-4500 CN-E	
		SP-2-012224	01/22/24	0950	X				2	X	X	X	
		SP-3-012224	01/22/24	1010	X				2	X	X	X	
		NWS-012224	01/22/24	1040	X				1	X			
		ENS-012224	01/22/24	1049	X				1	X			
		SWS-012224	01/22/24	1056	X				1	X			
		WWS-012224	01/22/24	1103	X				1	X			
		RVEWS-012224	01/22/24	1110	X				1	X			
		FBWS-012224	01/22/24	1115	X				1	X			
		BKV(0-2)	01/23/24	0940	X				2	X	X	X	

Relinquished by:	Date	Time	Received by:	Date	Time	Notes/Comments: Method 6010 = Al, Sb, As, Ba, Be, Bi, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, P(Pb), Se, Si, Na, Ag, Sr, Tl, Sn, Ti, V, Zn
<b>T. Lard</b>	01/24/24	1125	<b>T. Lard</b>	1-24-24	1125	3.7-0.2

Received at Summit By:	Date	Time	Carrier	Rush Requested	Received Temp:	Other Container:
<b>Auty B...</b>	01/24/24	1645	SET	Page 138 of 144 Day(s) Must be approved by Lab Manager	3.5 °C	Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED

Sufficient volume provided to run QC?  YES  NO  
Cooler?  YES  NO



Analysis Request / Chain of Custody

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Effective Date: 01/01/2023  
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Client Name <i>WSP USA E&amp;I</i>	Project Identification <i>777523 2021, 03, ANNA</i>	
Client Street Address <i>5243405 Rd Ste 204</i>	Project Street Address <i>PTQUA</i>	
City <i>Ministry</i> State <i>OH</i> Zip <i>45382</i>	City <i>PTQUA</i> State <i>OH</i> Zip	
Client Phone <i>937 287 8391</i>	Report To <i>R. Dombach</i>	
Contact Person <i>R. Dombach</i>	PO# <i>0012611597</i>	Quote Number
Client Email Address <i>russell.dombach@wsp.com</i>	PWS ID	Facility ID
Sampled By (Print Name and Provide Signature) Print: <i>R. Dombach</i> Sign: <i>[Signature]</i>	Reporting/Accreditation Requirements: <input type="checkbox"/> Ohio VAP <input type="checkbox"/> Ohio EPA Pb, Cu <input type="checkbox"/> Drinking Water Compliance <input type="checkbox"/> Other Compliance (List State/ Program):	
For DW only, results to be reported to state by lab? If yes, lab fee may apply: Y <input type="checkbox"/> N <input type="checkbox"/>		

Analytical Parameters and Methods Requested

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix: S=Solid, SL=Sludge, L=Liquid, O=Oil, A=Air, NPW=Non-Potable Water, DW=Drinking Water	Preservation: 1) HNO3; 2) H2SO4; 3) HCl; 4) Zinc Acetate; 5) NaOH; 6) EDA; 7) none; 8) other (specify in comments)	Number of Containers per Sample	Inorganics Method 6010	PAH Method 8270	Cyanide Method 4500 CN <sup>-</sup>	For DW Only: Special Compliance or Routine (S/R)
		SB1 (2-4)	01/23/24	1315	X				2	X	X	X	
		SB2 (0-2)	01/23/24	1303	X				2	X	X	X	
		SB2 (2-4)	01/23/24	1306	X				2	X	X	X	
		SB3 (2-4)	01/23/24	1330	X				2	X	X	X	
		SB4 (0-2)	01/23/24	1250	X				2	X	X	X	
		SB4 (2-4)	01/23/24	1255	X				2	X	X	X	
		SB5 (0-2)	01/23/24	1137	X				2	X	X	X	
		SB5 (0-2)R	01/23/24	1137	X				2	X	X	X	
		SB5 (2-4)	01/23/24	1140	X				2	X	X	X	
		SB6 (0-2)	01/23/24	1120	X				2	X	X	X	

Relinquished by:	Date	Time	Received by	Date	Time	Notes/Comments:
<i>R. Dombach</i>	01/24/24	1125	<i>T. Lard</i>	1-24-24	1125	<i>Inorganic 6010 List on page 1</i>
<i>T. Lard</i>	1-24-24	1645				

Received at Summit By:	Date	Time	Carrier	Received Temp: °C	Other Container: Ice Present? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED

Sufficient volume provided to run QC?  YES  NO Cooler?  YES  NO



### Analysis Request / Chain of Custody

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Effective Date: 01/01/2023  
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Client Name <b>WSP USA E&amp;I</b>		Project Identification <b>777523 2021.03. RRR</b>		Grab Sample	Composite Sample	Matrix: S=Solid, SL=Sludge, L=Liquid, O=Oil, A=Air, NPW=Non-Potable Water, DW=Drinking Water	Preservation: 1) HNO3; 2) H2SO4; 3) HCl; 4) Zinc Acetate; 5) NaOH; 6) EDA; 7) none; 8) other (specify in comments)	Number of Containers per Sample	Analytical Parameters and Methods Requested																		
Client Street Address <b>5215 years Rd Ste 204</b>		Project Street Address <b>PI Quon</b>							Inorganics Method 6010	PAH Method 8270	Cyanide Method 4500 CW	For DW Only: Special Compliance or Routine (S/R)															
City, State, Zip <b>Minister OH 45342</b>		City, State, Zip <b>PERVA OH</b>																									
Client Phone <b>937 287 8391</b>		Report To <b>R. Dornbusch</b>																									
Contact Person <b>R. Dornbusch</b>		PO# <b>CO12611597</b>																									
Client Email Address <b>rvs@ll.dornbusch@wsp.com</b>		PWS ID																									
Sampled By (Print Name and Provide Signature) <b>R. Dornbusch</b>		Reporting/Accreditation Requirements:																									
Print: <b>R. Dornbusch</b>		<input type="checkbox"/> Ohio VAP <input type="checkbox"/> Ohio EPA Pb, Cu																									
Sign: <b>R. Dornbusch</b>		<input type="checkbox"/> Drinking Water Compliance																									
For DW only, results to be reported to state by lab? If yes, lab fee may apply: Y <input type="checkbox"/> N <input type="checkbox"/>		<input type="checkbox"/> Other Compliance (List State/ Program):																									

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix	Preservation	Number of Containers per Sample	Inorganics Method 6010	PAH Method 8270	Cyanide Method 4500 CW	For DW Only: Special Compliance or Routine (S/R)
		SB6(2-4)	01/23/24	1123	X				2	X	X	X	
		SB7(0-2)	01/23/24	1103	X				2	X	X	X	
		SB7(2-4)	01/23/24	1107	X				2	X	X	X	
		SB8(0-2)	01/23/24	1030	X				2	X	X	X	
		SB8(2-4)	01/23/24	1035	X				1	X	X	X	
		SB8(2-4)R	01/23/24	1035	X				1	X	X	X	
		SB9(0-2)	01/23/24	1010	X				2	X	X	X	
		SB9(2-4)	01/23/24	1014	X				2	X	X	X	
		SB10(0-2)	01/23/24	1045	X				2	X	X	X	
		SB10(2-4)	01/23/24	1050	X				2	X	X	X	

Relinquished by:	Date	Time	Received by:	Date	Time	Notes/Comments:
<b>R. Dornbusch</b>	01/24/24	1125	<b>T. Land</b>	1-24-24	1125	Inorganics 6010 test on page 1
<b>T. Land</b>	1-24-24	1645				

Received at Summit By:	Date	Time	Carrier	Rush Requested: <input type="checkbox"/> <b>Page 140</b> of 144 Day(s)	Received Temp: _____ °C	Other Container: _____
				Must be approved by Lab Manager		Ice Present? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED

Sufficient volume provided to run QC?  YES  NO      Cooler?  YES  NO



### Analysis Request / Chain of Custody

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Effective Date: 01/01/2023  
Page 1 of 1

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Client Name <i>WSP USA E&amp;F</i>		Project Identification <i>77523 2021.03. <del>XXXX</del></i>	
Client Street Address <i>521 Byers Rd Sk 202</i>		Project Street Address <i>PEQUA</i>	
City <i>Miamisburg</i>	State <i>OH</i>	City <i>PEQUA</i>	State <i>OH</i>
Client Phone <i>937 287 8391</i>	Report To <i>R. Dombrowski</i>	Zip <i>45342</i>	Zip <i>45342</i>
Contact Person <i>R. Dombrowski</i>	PO# <i>202611597</i>	Quote Number	
Client Email Address <i>ross@wspusa.com</i>	PWS ID	Facility ID	
Sampled By (Print Name and Provide Signature) <i>R. Dombrowski</i>		Reporting/Accreditation Requirements: <input type="checkbox"/> Ohio VAP <input type="checkbox"/> Ohio EPA Pb, Cu <input type="checkbox"/> Drinking Water Compliance <input type="checkbox"/> Other Compliance (List State/ Program):	
Sign:			
For DW only, results to be reported to state by lab? If yes, lab fee may apply: Y <input type="checkbox"/> N <input type="checkbox"/>			

#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix: S=Solid, SL=Sludge, L=Liquid, O=Oil, A=Air, NPW=Non-Potable Water, DW=Drinking Water	Preservation: 1) HNO3; 2) H2SO4; 3) HCl; 4) Zinc Acetate; 5) NaOH; 6) EDA; 7) none; 8) other (specify in comments)	Number of Containers per Sample	Analytical Parameters and Methods Requested				For DW Only: Special Compliance or Routine (S/R)
		<i>SW1-012324</i>	<i>01/23/24</i>	<i>1430</i>	<i>X</i>				<i>3</i>	<i>Inorganics Method 6010</i>	<i>Anion</i>	<i>Cyanide Method 4500-CNE</i>	<i>PAH Method 8270</i>	
		<i>EB001-012324</i>	<i>01/23/24</i>	<i>1245</i>	<i>X</i>				<i>3</i>	<i>X</i>	<i>X</i>	<i>X</i>		<i>PH-1, 6, 12</i>
		<i>WC1-012324</i>	<i>01/23/24</i>	<i>1420</i>	<i>X</i>				<i>2</i>	<i>X</i>	<i>X</i>			<i>PH-1, 6, 12</i>

Relinquished by:	Date	Time	Received by:	Date	Time	Notes/Comments: <i>Inorganics 6010 list on page 1</i> <i>Anions: bromide, chloride, fluoride, nitrate as N, Nitrite as N, phosphate (total P), sulfate</i>
<i>R. Dombrowski</i>	<i>01/24/24</i>	<i>1125</i>	<i>T. Level</i>	<i>1.24.24</i>	<i>1125</i>	
<i>T. Level</i>	<i>1.24.24</i>	<i>1645</i>				Sufficient volume provided to run QC? <input type="checkbox"/> YES <input type="checkbox"/> NO      Cooler? <input type="checkbox"/> YES <input type="checkbox"/> NO
Received at Summit By:	Date	Time	Carrier	Received Temp: _____ °C		Other Container: Ice Present? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> MELTED

Page 141 of 144 Day(s)  
Must be approved by Lab Manager

## Holly Florea

---

From: Dornbusch, Russell <[russell.dornbusch@wsp.com](mailto:russell.dornbusch@wsp.com)>  
Sent: Thursday, January 25, 2024 9:37 AM  
To: Holly Florea  
Subject: WSP E&I Project 7775-23-2021.03.\*\*\*\* - Soil Sample BK1(2-4)

Holly,

Regarding the soils samples submitted on January 24, 2024 for WSP E&I project 7775-23-2021.03.\*\*\*\*, soil sample BK1(2-4) was inadvertently left off the chain-of-custody (COC) form. Please add soil sample BK1(2-4) collected on January 23, 2024 at 0955 to the COC and the sample delivery group. Soil Sample BK1(2-4) is to be analyzed for Inorganics Method 6010, PAH Method 8270 and Cyanide Method 4500CN-E. The list of 6010 analytes is listed on page 1 of 4 of the COCs.

Thanks  
Rusty



**Russell Dornbusch**  
Senior Geologist

T+ 1 937-859-3600  
M+ 1 937-776-6648

WSP Global Inc.  
521 Byers Rd., Suite 204  
Miamisburg, Ohio  
USA

[wsp.com](http://wsp.com)

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 3310 Win St.  
 Cuyahoga Falls, Ohio 44223  
 TEL: (330) 253-8211 FAX: (330) 253-4489  
 Website: <http://www.settek.com>

# Sample Log-In Check List

Client Name: WOO-OH-45342

Work Order Number: 24011575

RcptNo: 1

Logged by:	Anthony W. Britton	1/24/2024 4:45:00 PM	
Completed By:	Anthony W. Britton	1/24/2024 6:50:35 PM	
Reviewed By:	Holly Florea	1/25/2024 10:14:42 AM	

**Chain of Custody**

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? Summit

**Log In**

3. Coolers are present? Yes  No  NA   
 4. Shipping container/cooler in good condition? Yes  No   
 Custody seals intact on shipping container/cooler? Yes  No  Not Present   
 No. Seal Date: Signed By:  
 5. Was an attempt made to cool the samples? Yes  No  NA   
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
 7. Sample(s) in proper container(s)? Yes  No   
 8. Sufficient sample volume for indicated test(s)? Yes  No   
 9. Are samples (except VOA and ONG) properly preserved? Yes  No   
 10. Was preservative added to bottles? Yes  No  NA   
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes  No  No VOA Vials   
 12. Were any sample containers received broken? Yes  No   
 13. Does paperwork match bottle labels? Yes  No   
 (Note discrepancies on chain of custody)  
 14. Are matrices correctly identified on Chain of Custody? Yes  No   
 15. Is it clear what analyses were requested? Yes  No   
 16. Were all holding times able to be met? Yes  No   
 (If no, notify customer for authorization.)

**Special Handling (if applicable)**

17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:  
 Run BK1 (2-4) for the same parameters as BK1 (0-2) per email.  
 Client sent two 4oz jars for sample BK1(2-4), but did not include sample on coc. Incorrect container count for sample EB001-012324. With PAH vials should be 5 not 3.

**Cooler Information**



Summit Environmental Technologies, Inc.  
3310 Win St.  
Cuyahoga Falls, Ohio 44223  
TEL: (330) 253-8211 FAX: (330) 253-4489  
Website: <http://www.settek.com>

## Sample Log-In Check List

Client Name: WOO-OH-45342

Work Order Number: 24011575

RcptNo: 1

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good	Not Present			