Report of

Subsurface Environmental Investigation

Prepared for:
City of Crest Hill

Former Crest Hill City Hall
1610 Plainfield Road
Crest Hill, Will County, Illinois 60403

May 21, 2024

ECS Midwest, LLC
1575 Barclay Blvd
Buffalo Grove, Illinois 60089
847-279-0366

May 21, 2024

Mr. Ron Wiedeman
City of Crest Hill
1610 Plainfield Road
Crest Hill, Illinois 60403
Email: rwiedeman@cityofcresthill.com

ECS Project No. 53-4545-B

RE: Subsurface Environmental Investigation, Former Crest Hill City Hall, 1610 Plainfield Road, Crest Hill, Will County, Illinois 60403

Dear Mr. Wiedeman,

Please find enclosed one copy of the Subsurface Environmental Investigation completed by ECS for the above referenced property. If you have any questions concerning the information contained in this report, please contact either of the undersigned at (847) 279-0366. Thank you for retaining ECS for this assessment.

Respectfully Submitted,

ECS MIDWEST, LLC

Mike V. McGee, PG
Senior Project Manager

Jason Warren, REM
Principal

https://ecslimited365.sharepoint.com/sites/53MidwestEnvironmental/53 Data/Office 53 Environmental/Phase II/Phase II/Illinois/4545-B Crest Hill SSI/4545-B Crest Hill SSI Report.doc

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1.0 INTRODUCTION

ECS Midwest, LLC (ECS) was retained to perform a subsurface environmental investigation of the property located at 1610 Plainfield Road in Crest Hill, Illinois (subject property). A topographic map is provided as Figure 1 and an aerial photograph map is provided as Figure 2.

The subject property is identified by the Will County Assessor as parcels 11-04-31-405-006, 11-04-31-405-050, and 11-04-31-405-051, which are owned by the City of Crest Hill. The approximately 4.9-acre subject property is comprised of a vacant single-story, approximately 35,000-square foot building with a mezzanine. The remaining portions of the subject property are comprised of a retention pond, unimproved land, and a paved lot for parking.

1.1 Purpose of Investigation

A Phase I Environmental Site Assessment Report was prepared by ECS on the subject property (dated December 22, 2023). The following recognized environmental conditions (RECs) were identified on the subject property:

- A gasoline release incident was reported in 2002 following the removal of a 2,000-gallon UST. Evidence that groundwater was assessed following the reported release incident was not encountered.
- Building records and site reconnaissance indicate a 10,000-gallon oil underground storage tank (UST) may be located below or near the boiler room of the onsite building.
- The subject property was utilized as a bottling facility in 1947 until sometime between 1947 and 1976. Historical use of hazardous substances including potential chlorinated solvents may have been used and disposed of onsite.
- An automotive maintenance shop was utilized onsite between the 1970s and sometime prior to 2022. The maintenance shop utilized and or stored motor oil, used oil, vehicular fluids, and operated hydraulic fluid lifts.

Based on the findings of this review, sampling of on-site soil, groundwater, and soil/gas was requested.

1.2 Objectives and Scope of Work

In an effort to determine if the subject property has been affected by the identified RECs, ECS performed a subsurface environmental investigation. The subsurface investigation consisted of the collection of ten soil samples, one groundwater sample, and four soil/gas samples for chemical analysis. Please note that four groundwater samples were originally proposed to be taken. However, due to the lack of available groundwater, one additional “deep” (approximately 13 to 15 feet below ground surface [bgs]) soil sample was taken from three borings in lieu of groundwater.

2.0 SUBSURFACE EXPLORATION

Subsurface exploration activities included soil, groundwater, and soil/gas sampling and analysis as described below.

2.1 Soil and Groundwater Sampling Program

On March 21, 2024, in order to evaluate subsurface soil conditions, ECS collected one to two soil samples from each of the ten soil borings (B-2 through B-11) advanced on the subject property. The locations of the soil borings are shown in Figure 3. The soil borings were advanced by using a direct-push hydraulic probe (Geoprobe) and were advanced continuously from the ground surface to the bottom of the borings (approximately 20 feet) by pushing a 2-inch diameter by 5-foot-long hollow-barreled sampler into/through the soil. Soil samples were collected in dedicated, disposable plastic liners contained in the sampler. Following sample collection, the soil boring holes were backfilled with granular bentonite and/or the soil cuttings and patched with concrete to match the existing ground surface. Drilling equipment, including the sampling rods, was decontaminated prior to sampling and in between boring locations using a high-pressure steam cleaner. All drilling activities were conducted by Environmental Soil Probing Corp of St. Charles, Illinois under the supervision of an ECS geologist.

ECS installed one temporary groundwater monitoring well (TW-1). The temporary well was purged of approximately three well volumes prior to collection of the groundwater sample. The location of the temporary well is identified in Figure 3. The groundwater sample was collected from the temporary well using a dedicated one-inch disposable bailer. Following sample collection, the temporary well was backfilled with granular bentonite, hydrated in-place, and patched to match the exiting ground surface.

2.2 Soil/Gas Sampling Program

ECS supervised the installation of four soil/gas sample collection points and collected soil/gas samples (SG-1 through SG-4) directly from on-site shallow soils. The soil/gas monitoring points were installed using a truck mounted, decontaminated, direct-push hydraulic probe with an expendable tip, to the desired depth (approximately 3 feet below ground surface). Once the desired depth was reached, a ⅛ inch outside diameter post-run nylon tubing was connected to the expendable point holders. The rods were then pulled up three to six inches to create cavities to collect the soil/gas samples. The rods were sealed at the surface with bentonite clay to prevent air from entering around the rods.

The soil/gas samples were collected from a depth of 3 feet below the ground surface and above the saturation zone. The soil/gas monitoring points were installed using the truck mounted, direct-push hydraulic probe with an expendable tip and/or a jackhammer drill, to the desired depth (approximately 3 feet below ground surface – as required by the Illinois EPA).

Following installation, the monitoring points were purged of approximately five volumes of air prior to soil/gas sample collection. Upon completion of purging activities and prior to sample collection, leak tests, utilizing helium tracer gas, were performed in order to confirm that there were no leaks within the sampling trains. Upon verification that no leaks existed within the sampling trains, soil/gas samples were collected over an 8 minute period utilizing an 8 minute regulator and stainless steel summa canister (calibrated and certified clean by the analytical laboratory). Soil/gas sampling was not conducted within 48 hours after a rainfall event of ½ inch or greater, in standing or ponded water areas or where soil is constantly watered by an irrigation system.

2.3 Soil, Groundwater and Soil/Gas Analytical Program

Thirteen soil samples, one groundwater sample, and four soil/gas samples were collected and analyzed for the parameters listed below:

Number of Sample Locations	Analytical Parameters
Soil	
2 (Former 10,000-gal UST)	BTEX/MTBE, PNAs, Lead, pH
8 (Former on-site operations and 2,000-gal UST)	VOCs, SVOCs, RCRA Metals, and pH
Groundwater	
1 (Former 2,000-gal UST)	BTEX/MTBE, PNAs, Lead
Soil/Gas	
4	VOCs

BTEXs/VOCs - Volatile organic compounds via Method 8260B, TO-15 (air)
PNAs – Polynuclear Aromatics via Method 8270D
SVOCs – Semivolatile Organic Compounds via Method 8270D
RCRA Metals – via Method 6010B/7471B/9012
pH – via Method 9045

The soil, groundwater, and soil/gas analyses were performed by Eurofins of University Park, Illinois (an IEPA accredited laboratory) on a standard laboratory turnaround basis.

3.0 RESULTS OF SUBSURFACE EXPLORATION

3.1 Soil Conditions

Soil samples were examined for overburden classification as well as for visual evidence of contamination. Soil type, consistency, and the thickness and depth of the units were used to define the site stratigraphy. The surface at each location generally consisted of a layer of asphalt or concrete. The soils encountered in borings B-1 through B-11 generally consisted of brown silty clay to a depth of 8 to 9 feet and brown to gray clay to the remaining total depth of 15 feet bgs.

Headspace vapor measurements were taken in the field on separate split samples (i.e. not on the portion of the sample preserved for subsequent analysis) to estimate the VOC content of the samples using a Ray Systems Mini-Rae® photoionization detector (PID). The PID was calibrated with a 100-$ppm_{v/v}$ isobutylene-in-air commercial grade gas standard. The headspace samples were prepared by filling a new airtight plastic bag approximately half full with a sample of the soil collected from the respective sample interval. The airtight bag was then sealed and allowed to equilibrate at ambient temperature and out of direct sunlight for at least 15 minutes. The sample headspace was screened for VOCs by inserting the PID probe through the plastic approximately 1 inch into the airtight bag.

PID readings were observed to be at or below background levels at each of the soil boring locations with the exception of B-5, B-7, and B-10. Soil boring logs are provided in Appendix I.

3.2 Results of Soil Analysis

Soil samples collected from soil borings B-2 through B-8 and B-11 were analyzed for VOCs, SVOCs, RCRA Metals, and pH. Soil samples collected from soil borings B-9 and B-10 were analyzed for BTEX/MTBE, PNAs, lead, and pH. The locations of the soil borings are shown in Figure 3, and the results of the soil analyses are summarized in Tables 1 through 3. Copies of the laboratory report and chain of custody documents are included in Appendix II.

The results of the soil analysis were compared to the Illinois EPA Tier 1 Soil Remediation Objectives (SROs), and/or documented background concentrations, as cited in Title 35 Illinois Administrative Code 742 (35 IAC 742). Given the use of the subject property (commercial), these comparisons were based upon an industrial/commercial classification and construction worker scenarios for the soil ingestion and outdoor soil inhalation exposure pathways. The soil component to groundwater ingestion (SCGI) exposure pathway was based upon a Class I groundwater designation, as the actual class of groundwater has not been determined for the subject property.

The results of the investigation are as follows:

VOCs: As indicated in Table 1, were not detected at concentrations exceeding applicable SROs, with the exception of the following:

- **Benzene -** Benzene was detected in soil sample B-7 at a concentration of 0.043 mg/kg. This concentration exceeds the Class I Soil Component of the Groundwater Ingestion (SCGI) Remediation Objective of 0.03 mg/kg.

SVOCs: As indicated in Table 2, SVOCs were not detected at concentrations exceeding applicable SROs.

RCRA Metals: As indicated in Table 3, RCRA Metals were not detected at concentrations exceeding applicable SROs.

3.3 Results of Groundwater Analysis

The groundwater sample was collected and analyzed for BTEX, PNAs, and Lead. The location of the groundwater sampling point is shown on Figure 3 and the results of the soil analysis are summarized in Tables 4 through 6. A copy of the laboratory report and chain of custody document is included in Appendix II.

The results of the groundwater analysis were compared to the Illinois EPA Tier 1 Groundwater Remediation Objectives (GROs) as cited in Title 35 Illinois Administrative Code 742 (35 IAC 742) based upon the most restrictive Class I groundwater designation, as the actual class of groundwater has not been determined for the subject property.

The results of the investigation are as follows:

BTEX: As indicated in Table 4, BTEX were not detected at concentrations exceeding applicable GROs.

PNAs: As indicated in Table 5, PNAs were not detected at concentrations exceeding applicable GROs, with the exception of the following:

- **Benzo[b]fluoranthene –** Benzo[b]fluoranthene was detected in sample TW-1 at a concentration of 0.00030 mg/L. This concentration exceeds the Class I GRO of 0.00018 mg/L.

Lead: As indicated in Table 6, lead was detected at a concentration of 0.014 mg/L. This concentration exceeds the Class I GRO of 0.0075 mg/L.

3.4 Results of Soil/Gas Analysis

The soil/gas samples were collected and analyzed for VOCs. The location of the soil/gas sampling points are shown in Figure 3 and the results of the soil/gas analysis are summarized in Table 7. A copy of the laboratory report and chain of custody document are included in Appendix II.

The results of the soil/gas sampling were compared to the Soil Gas Remediation Objectives (SGROs) for the Indoor Inhalation Exposure Route and Construction Worker Exposure Route, for industrial/commercial properties, as identified in Table H of *Part 742 Tiered Approach to Corrective Action Objectives (TACO)*.

The results of the investigation are as follows:

VOCs: As indicated in Table 7, VOCs were not detected at concentrations exceeding applicable SGROs.

4.0 CONCLUSIONS

4.1 Findings of Site Investigation Activities

ECS Midwest, LLC (ECS) was retained to perform a subsurface environmental investigation of the subject property located at 1610 Plainfield Road in Crest Hill, Will County, Illinois. The objective of the subsurface environmental investigation was to determine if the previously identified RECs negatively impacted the subject property. To meet this objective, ECS collected thirteen soil samples, one groundwater sample, and four soil/gas samples for chemical analysis.

As indicated in the attached tables, exceedances of the following exposure pathways were identified:

- **Soil Component to Class I Groundwater Ingestion**
  VOCs: benzene

- **Class I Groundwater Ingestion**
  SVOCs: benzo[b]fluoranthene
  Metals: lead

5.0 LIMITATIONS

The conclusions presented herein are based on field observations and analytical data obtained by ECS at the subject property. The opinions presented here are based on our understanding of existing environmental statutes and regulations. No representation is made or intended relative to future environmental statutes, regulations, or objectives. This report represents our professional judgment and opinion. No warranty is expressed or implied.

FIGURES

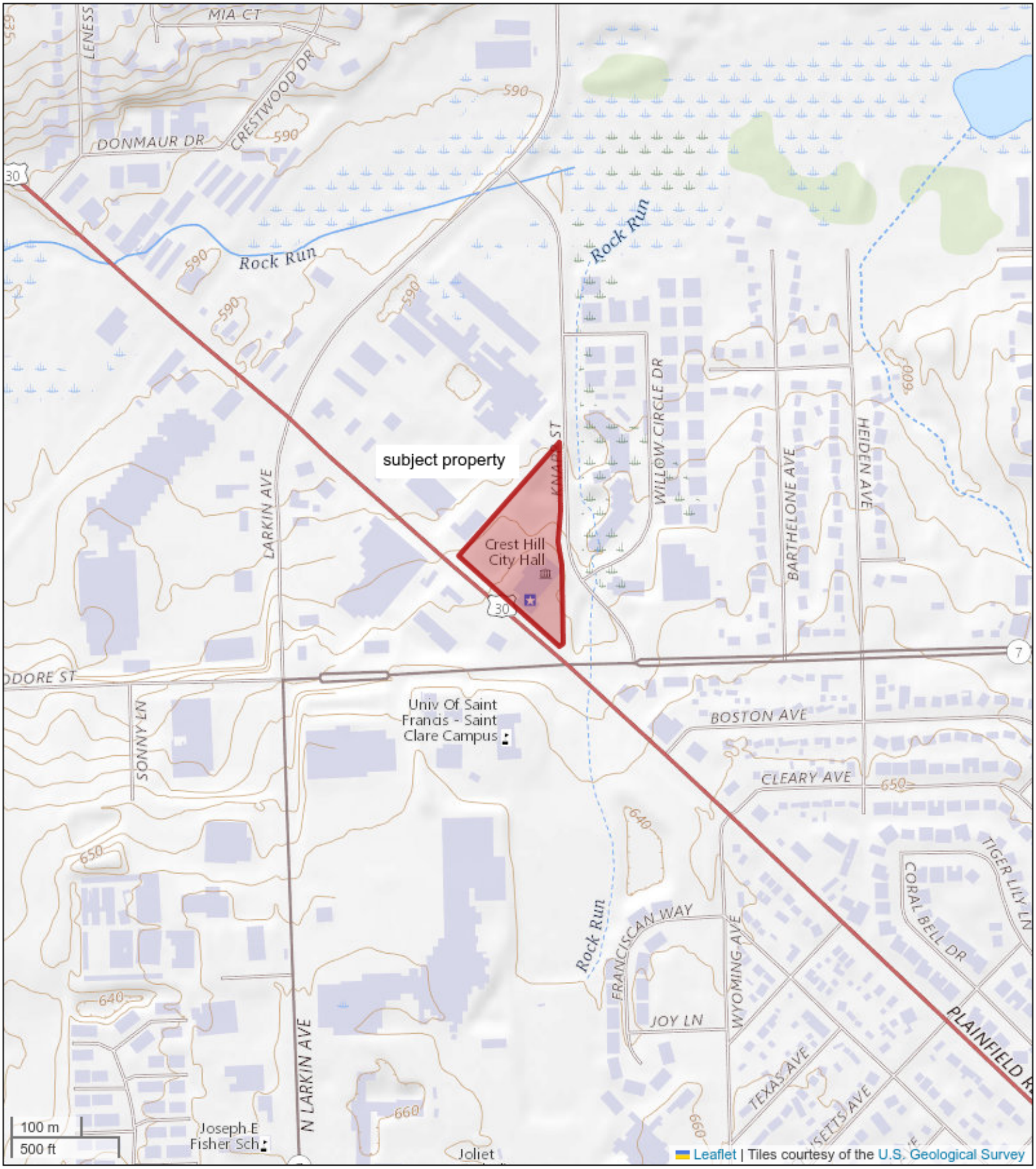


Figure 1

USGS Topographic Map
Crest Hill City Building
1610 Plainfield Road
Crest Hill, Illinois 60403

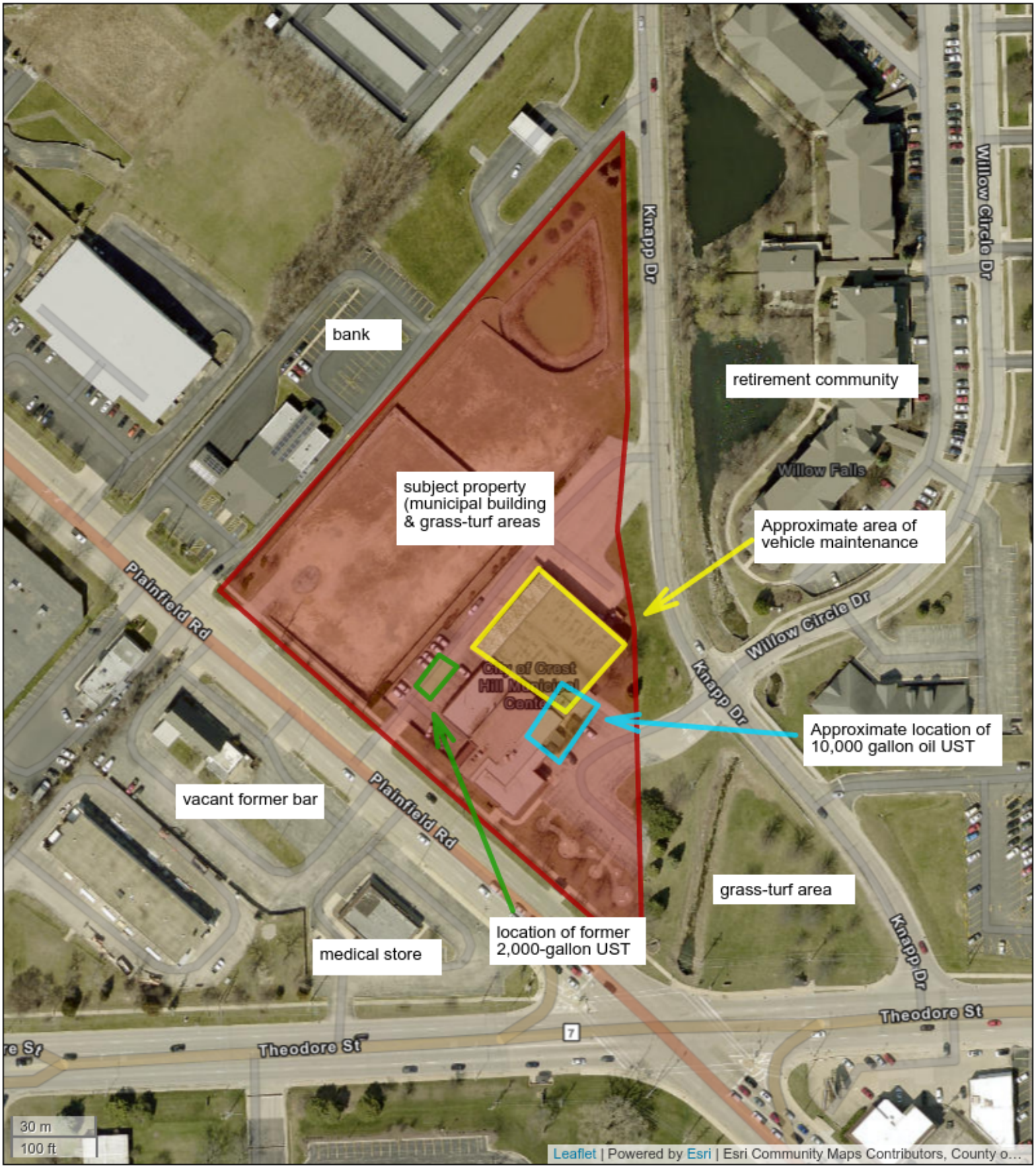
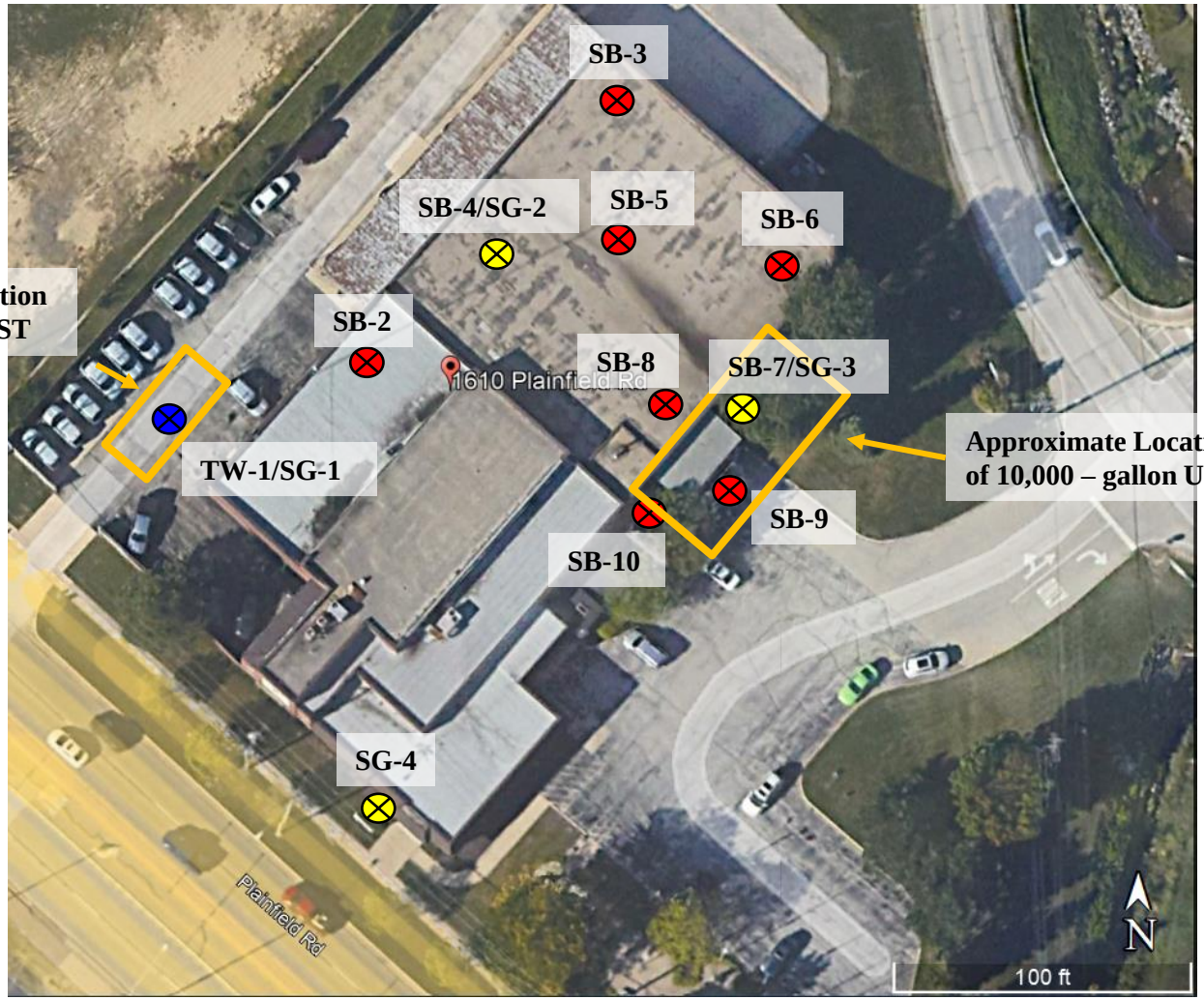


Figure 2

Site Layout/Vicinity Map
Former Crest Hill City Hall
1610 Plainfield Road
Crest Hill, Illinois 60403



Legend – See scale

Soil Sample Location

Groundwater & Soil/Gas Sample Location

Soil & Soil/Gas Sample Location

1610 Plainfield Road
Crest Hill, Illinois

Figure 3
Sample Location Map
ECS Project 4545-B
April 2024

TABLES

Table 1. Summary of VOC Concentrations in Soil
Samples Collected March 2024

Analyte	Tier 1 SROs					Sample Location and Depth (ft)						
	Industrial/Commercial		SCGI	Construction Worker		B-2	B-3	B-3	B-4	B-5	B-6	B-6
	Ingestion	Inhalation	Class I	Ingestion	Inhalation	5-7	5-7	13-15	5-7	4-6	5-7	13-15
	mg/kg											
1,1,1-Trichloroethane	NRO	1200	2	NRO	1200	<0.00053	<0.00062	<0.00064	<0.00054	<0.00061	<0.00059	<0.00059
1,1,2,2-Tetrachloroethane	27	1.2	0.0035	620	1.7	<0.00050	<0.00059	<0.00061	<0.00051	<0.00058	<0.00056	<0.00056
1,1,2-Trichloroethane	8200	1800	0.02	8200	1800	<0.00067	<0.00079	<0.00082	<0.00069	<0.00078	<0.00075	<0.00075
1,1-Dichloroethane	200000	1700	23	200000	130	<0.00054	<0.00063	<0.00065	<0.00055	<0.00063	<0.00060	<0.00060
1,1-Dichloroethene	100000	470	0.06	10000	3	<0.00054	<0.00063	<0.00066	<0.00055	<0.00063	<0.00061	<0.00060
1,2-Dichloroethane	63	0.7	0.02	1400	0.99	<0.0012	<0.0014	<0.0015	<0.0013	<0.0014	<0.0014	<0.0014
1,2-Dichloropropane	84	23	0.03	1800	0.5	<0.00041	<0.00048	<0.00049	<0.00042	<0.00047	<0.00045	<0.00045
1,3-Dichloropropene, Total	57	2.1	0.004	1200	0.39	<0.00055	<0.00065	<0.00067	<0.00056	<0.00064	<0.00062	<0.00061
2-Hexanone	NRO	NRO	NRO	NRO	NRO	<0.0012	<0.0014	<0.0015	<0.0013	<0.0014	<0.0014	<0.0014
Acetone	NRO	100000	25	NRO	100000	<0.0068	0.042	<0.0083	<0.0070	<0.0080	<0.0077	<0.0076
Benzene	100	1.6	0.03	2300	2.2	<0.00040	<0.00047	<0.00049	0.00058	0.010	<0.00045	0.0026
Bromodichloromethane	92	3000	0.6	2000	3000	<0.00032	<0.00038	<0.00039	<0.00033	<0.00037	<0.00036	<0.00036
Bromoform	720	100	0.8	16000	140	<0.00046	<0.00054	<0.00056	<0.00047	<0.00053	<0.00051	<0.00051
Bromomethane	2900	15	0.2	1000	3.9	<0.0015	<0.0017	<0.0018	<0.0015	<0.0017	<0.0017	<0.0017
Carbon disulfide	200000	720	32	20000	9	<0.00081	<0.00096	<0.00099	<0.00084	<0.00095	<0.00091	<0.00091
Carbon tetrachloride	44	0.64	0.07	410	0.9	<0.00045	<0.00053	<0.00055	<0.00047	<0.00053	<0.00051	<0.00051
Chlorobenzene	41000	210	1	4,100	1.3	<0.00058	<0.00068	<0.00070	<0.00059	<0.00067	<0.00065	<0.00065
Chloroethane	NRO	1500	NRO	20000	39	<0.0012	<0.0014	<0.0014	<0.0012	<0.0014	<0.0013	<0.0013
Chloroform	940	0.54	0.6	2000	0.76	<0.00054	<0.00064	<0.00066	<0.00056	<0.00063	<0.00061	<0.00061
Chloromethane	NRO	180	NRO	NRO	5	<0.0016	<0.0019	<0.0019	<0.0016	<0.0018	<0.0018	<0.0018
cis-1,2-Dichloroethene	20000	1200	0.4	20000	1200	<0.00044	<0.00052	<0.00053	<0.00045	<0.00051	<0.00049	<0.00049
cis-1,3-Dichloropropene	NRO	NRO	NRO	NRO	NRO	<0.00047	<0.00056	<0.00057	<0.00049	<0.00055	<0.00053	<0.00053
Dibromochloromethane	41000	1300	0.4	41000	1300	<0.00051	<0.00060	<0.00062	<0.00053	<0.00060	<0.00058	<0.00057
Ethylbenzene	200000	400	13	20000	58	<0.00075	<0.00088	<0.00091	<0.00077	<0.00087	<0.00084	<0.00084
Methyl Ethyl Ketone	1000000	25000	17	120000	730	<0.0017	0.0084	<0.0021	<0.0018	<0.0020	<0.0020	<0.0019
methyl isobutyl ketone	NRO	3100	NRO	NRO	340	<0.0012	<0.0014	<0.0014	<0.0012	<0.0014	<0.0013	<0.0013
Methyl tert-butyl ether	20000	8800	0.32	2000	140	<0.00046	<0.00054	<0.00056	<0.00047	<0.00054	<0.00052	<0.00051
Methylene Chloride	760	24	0.02	12000	34	<0.0015	<0.0018	<0.0019	<0.0016	<0.0018	<0.0017	<0.0017
Styrene	410000	1500	4	41000	430	<0.00047	<0.00056	<0.00058	<0.00049	<0.00055	<0.00053	<0.00053
Tetrachloroethene	110	20	0.06	2400	28	<0.00053	<0.00063	<0.00065	<0.00055	<0.00062	<0.00060	<0.00060
Toluene	410000	650	12	410000	42	<0.00040	<0.00047	<0.00048	0.0019	0.0010	<0.00044	<0.00044
trans-1,2-Dichloroethene	41000	3100	0.7	41000	3100	<0.00069	<0.00082	<0.00084	<0.00071	<0.00081	<0.00078	<0.00078
trans-1,3-Dichloropropene	NRO	NRO	NRO	NRO	NRO	<0.00055	<0.00065	<0.00067	<0.00056	<0.00064	<0.00062	<0.00061
Trichloroethene	520	8.9	0.06	1200	12	<0.00053	<0.00062	<0.00064	<0.00054	<0.00062	<0.00059	<0.00059
Vinyl chloride	7.9	1.1	0.01	170	1.1	<0.00069	<0.00082	<0.00084	<0.00071	<0.00081	<0.00078	<0.00077
Xylenes, Total	410000	320	150	41000	5.6	<0.00050	<0.00059	<0.00061	<0.00051	0.015	<0.00056	0.0012

Concentrations in excess of Tier 1 SROs are shaded yellow

Exceeded SROs are shaded green

NRO – No Remediation Objective Listed in 35 IAC 742

VOCs via USEPA Method 8260B/5035

Table 1 Cont. Summary of VOC Concentrations in Soil
Samples Collected March 2024

Analyte	Tier 1 SROs					Sample Location and Depth (ft)					
	Industrial/Commercial		SCGI	Construction Worker							
	Ingestion	Inhalation	Class I	Ingestion	Inhalation	B-7	B-8	B-9	B-9	B-10	B-11
						11-13	8-10	8-10	13-15	8-10	5-7
	mg/kg										
1,1,1-Trichloroethane	NRO	1200	2	NRO	1200	<0.015	<0.00053	---	<0.00051	---	<0.00052
1,1,2,2-Tetrachloroethane	27	1.2	0.0035	620	1.7	<0.016	<0.00051	---	<0.00049	---	<0.00050
1,1,2-Trichloroethane	8200	1800	0.02	8200	1800	<0.014	<0.00068	---	<0.00066	---	<0.00067
1,1-Dichloroethane	200000	1700	23	200000	130	<0.016	<0.00054	---	<0.00052	---	<0.00054
1,1-Dichloroethene	100000	470	0.06	10000	3	<0.015	<0.00054	---	<0.00053	---	<0.00054
1,2-Dichloroethane	63	0.7	0.02	1400	0.99	<0.015	<0.0012	---	<0.0012	---	<0.0012
1,2-Dichloropropane	84	23	0.03	1800	0.5	<0.017	<0.00041	---	<0.00039	---	<0.00040
1,3-Dichloropropene, Total	57	2.1	0.004	1200	0.39	<0.016	<0.00056	---	<0.00054	---	<0.00055
2-Hexanone	NRO	NRO	NRO	NRO	NRO	0.70	<0.0012	---	<0.0012	---	<0.0012
Acetone	NRO	100000	25	NRO	100000	0.17	<0.0069	---	<0.0067	---	<0.0068
Benzene	100	1.6	**0.03**	2300	2.2	**0.043**	<0.00040	<0.0074	0.022	<0.0071	<0.00040
Bromodichloromethane	92	3000	0.6	2000	3000	<0.015	<0.00032	---	<0.00031	---	<0.00032
Bromoform	720	100	0.8	16000	140	<0.019	<0.00046	---	<0.00045	---	<0.00046
Bromomethane	2900	15	0.2	1000	3.9	<0.031	<0.0015	---	<0.0014	---	<0.0015
Carbon disulfide	200000	720	32	20000	9	<0.031	<0.00082	---	<0.00079	---	<0.00081
Carbon tetrachloride	44	0.64	0.07	410	0.9	<0.015	<0.00046	---	<0.00044	---	<0.00045
Chlorobenzene	41000	210	1	4,100	1.3	<0.015	<0.00058	---	<0.00056	---	<0.00058
Chloroethane	NRO	1500	NRO	20000	39	<0.020	<0.0012	---	<0.0011	---	<0.0012
Chloroform	940	0.54	0.6	2000	0.76	<0.015	<0.00055	---	<0.00053	---	<0.00054
Chloromethane	NRO	180	NRO	NRO	5	<0.013	<0.0016	---	<0.0015	---	<0.0016
cis-1,2-Dichloroethene	20000	1200	0.4	20000	1200	<0.016	<0.00044	---	<0.00043	---	<0.00044
cis-1,3-Dichloropropene	NRO	NRO	NRO	NRO	NRO	<0.016	<0.00048	---	<0.00046	---	<0.00047
Dibromochloromethane	41000	1300	0.4	41000	1300	<0.019	<0.00052	---	<0.00050	---	<0.00051
Ethylbenzene	200000	400	13	20000	58	7.6	<0.00076	<0.0092	0.027	<0.0089	<0.00075
Methyl Ethyl Ketone	1000000	25000	17	120000	730	2.0	<0.0018	---	<0.0017	---	<0.0017
methyl isobutyl ketone	NRO	3100	NRO	NRO	340	<0.084	<0.0012	---	<0.0011	---	<0.0012
Methyl tert-butyl ether	20000	8800	0.32	2000	140	<0.015	<0.00046	<0.020	<0.00045	<0.019	<0.00046
Methylene Chloride	760	24	0.02	12000	34	<0.064	<0.0016	---	<0.0015	---	<0.0015
Styrene	410000	1500	4	41000	430	<0.015	<0.00048	---	<0.00046	---	<0.00047
Tetrachloroethene	110	20	0.06	2400	28	<0.015	<0.00054	---	<0.00052	---	<0.00053
Toluene	410000	650	12	410000	42	0.013	<0.00040	<0.0074	0.0011	<0.0071	<0.00039
trans-1,2-Dichloroethene	41000	3100	0.7	41000	3100	<0.014	<0.00070	---	<0.00068	---	<0.00069
trans-1,3-Dichloropropene	NRO	NRO	NRO	NRO	NRO	<0.014	<0.00056	---	<0.00054	---	<0.00055
Trichloroethene	520	8.9	0.06	1200	12	<0.0064	<0.00053	---	<0.00052	---	<0.00053
Vinyl chloride	7.9	1.1	0.01	170	1.1	<0.010	<0.00070	---	<0.00068	---	<0.00069
Xylenes, Total	410000	320	150	41000	5.6	0.65	<0.00051	<0.011	0.0053	<0.011	<0.00050

Concentrations in excess of Tier 1 SROs are shaded yellow

Exceeded SROs are shaded green

NRO – No Remediation Objective Listed in 35 IAC 742

VOCs via USEPA Method 8260B/5035

Table 2. Summary of SVOC Concentrations in Soil
Samples Collected March 2024

Analyte	Tier 1 SROs					Sample Location and Depth (ft)						
	Industrial/Commercial		SCGI	Construction Worker		B-2	B-3	B-3	B-4	B-5	B-6	B-6
	Ingestion	Inhalation	Class I	Ingestion	Inhalation	5-7	5-7	13-15	5-7	4-6	5-7	13-15
	mg/kg											
1,2,4-Trichlorobenzene	20000	3200	5	2000	920	<0.027	<0.028	<0.027	<0.026	<0.030	<0.028	<0.027
1,2-Dichlorobenzene	180000	560	17	18000	310	<0.016	<0.016	<0.015	<0.015	<0.017	<0.016	<0.015
1,3-Dichlorobenzene	NRO	NRO	NRO	NRO	NRO	<0.017	<0.018	<0.017	<0.017	<0.019	<0.018	<0.017
1,4-Dichlorobenzene	NRO	17000	2	NRO	340	<0.018	<0.019	<0.018	<0.017	<0.020	<0.019	<0.018
2,2'-oxybis[1-chloropropane]	NRO	NRO	NRO	NRO	NRO	<0.027	<0.028	<0.027	<0.027	<0.030	<0.028	<0.027
2,4,5-Trichlorophenol	200000	NRO	36-270	200000	NRO	<0.014	<0.015	<0.014	<0.014	<0.016	<0.015	<0.014
2,4,6-Trichlorophenol	520	390	0.07-0.15	11000	540	<0.013	<0.013	<0.013	<0.013	<0.014	<0.013	<0.013
2,4-Dichlorophenol	6100	NRO	0.56-1	610	NRO	<0.013	<0.014	<0.013	<0.013	<0.015	<0.014	<0.013
2,4-Dimethylphenol	41000	NRO	9	41000	NRO	<0.086	<0.088	<0.085	<0.083	<0.093	<0.088	<0.084
2,4-Dinitrophenol	4100	NRO	0.2	410	NRO	<0.22	<0.23	<0.22	<0.21	<0.24	<0.23	<0.22
2,4-Dinitrotoluene	8.4	NRO	0.0008	180	NRO	<0.022	<0.022	<0.022	<0.021	<0.024	<0.022	<0.021
2,6-Dinitrotoluene	8.4	NRO	0.0007	180	NRO	<0.013	<0.013	<0.013	<0.013	<0.014	<0.013	<0.013
2-Chloronaphthalene	160000	NRO	49	160000	NRO	<0.014	<0.015	<0.014	<0.014	<0.016	<0.015	<0.014
2-Chlorophenol	10000	53000	2.2-3.9	10000	53000	<0.012	<0.013	<0.012	<0.012	<0.013	<0.013	<0.012
2-Methylnaphthalene	8200	NRO	9.5	820	NRO	<0.0077	<0.0078	<0.0076	<0.0074	0.020	<0.0079	<0.0076
2-Methylphenol	100000	NRO	1.9	100000	NRO	<0.020	<0.021	<0.020	<0.019	<0.022	<0.021	<0.020
2-Nitroaniline	6100	56	0.14	610	3.6	<0.020	<0.021	<0.020	<0.020	<0.022	<0.021	<0.020
2-Nitrophenol	NRO	NRO	NRO	NRO	NRO	<0.026	<0.027	<0.026	<0.025	<0.028	<0.027	<0.026
3 & 4 Methylphenol	10000	NRO	0.2	1000	NRO	<0.028	<0.029	<0.028	<0.027	<0.030	<0.029	<0.028
3,3'-Dichlorobenzidine	13	NRO	0.007	280	NRO	<0.031	<0.032	<0.031	<0.030	<0.034	<0.032	<0.031
3-Nitroaniline	610	400	0.01	61	26	<0.017	<0.018	<0.017	<0.017	<0.019	<0.018	<0.017
4,6-Dinitro-2-methylphenol	200	NRO	0.0031	820	NRO	<0.22	<0.22	<0.21	<0.21	<0.23	<0.22	<0.21
4-Bromophenyl phenyl ether	NRO	NRO	NRO	NRO	NRO	<0.026	<0.027	<0.026	<0.025	<0.028	<0.027	<0.026
4-Chloro-3-methylphenol	NRO	NRO	NRO	NRO	NRO	<0.015	<0.015	<0.015	<0.014	<0.016	<0.015	<0.015
4-Chloroaniline	8200	NRO	0.7	820	NRO	<0.40	<0.41	<0.40	<0.39	<0.44	<0.41	<0.39
4-Chlorophenyl phenyl ether	NRO	NRO	NRO	NRO	NRO	<0.050	<0.051	<0.050	<0.048	<0.054	<0.052	<0.049
4-Nitroaniline	6100	1600	0.1	610	110	<0.028	<0.029	<0.028	<0.027	<0.031	<0.029	<0.028
4-Nitrophenol	NRO	NRO	NRO	NRO	NRO	<0.14	<0.14	<0.14	<0.14	<0.15	<0.15	<0.14
Acenaphthene	120000	NRO	570	120000	NRO	<0.0078	<0.0080	<0.0077	<0.0075	<0.0084	<0.0080	<0.0077
Acenaphthylene	61000	NRO	85	61200	NRO	<0.0065	<0.0066	<0.0065	<0.0063	<0.0070	<0.0067	<0.0064
Anthracene	610000	NRO	12000	610000	NRO	<0.0078	<0.0080	<0.0078	<0.0076	<0.0085	<0.0081	<0.0077
Benzo[a]anthracene	8	NRO	2	170	NRO	<0.0081	<0.0083	<0.0081	<0.0078	<0.0088	0.0099	<0.0080
Benzo[a]pyrene	0.8	NRO	8	17	NRO	<0.037	<0.038	<0.037	<0.036	<0.040	<0.038	<0.036
Benzo[b]fluoranthene	8	NRO	5	170	NRO	<0.036	<0.037	<0.036	<0.035	<0.040	<0.038	<0.036
Benzo[g,h,i]perylene	61000	NRO	27000	61200	NRO	<0.0083	<0.0085	<0.0082	<0.0080	<0.0090	<0.0085	<0.0082
Benzo[k]fluoranthene	78	NRO	49	1700	NRO	<0.015	<0.015	<0.014	<0.014	<0.016	<0.015	<0.014
Bis(2-chloroethoxy)methane	NRO	NRO	NRO	NRO	NRO	<0.014	<0.015	<0.014	<0.014	<0.016	<0.015	<0.014
Bis(2-chloroethyl)ether	5	0.47	0.0004	75	0.66	<0.018	<0.018	<0.018	<0.017	<0.019	<0.018	<0.017
Bis(2-ethylhexyl) phthalate	410	31000	3600	4100	31000	<0.15	<0.15	<0.15	<0.14	<0.16	<0.15	<0.15
Butyl benzyl phthalate	410000	930	930	410000	930	<0.019	<0.019	<0.019	<0.018	<0.021	<0.020	<0.019
Carbazole	290	NRO	0.6	6200	NRO	<0.015	<0.015	<0.015	<0.015	<0.016	<0.016	<0.015
Chrysene	780	NRO	160	17000	NRO	<0.010	<0.010	<0.010	<0.0097	<0.011	0.015	<0.0099
Dibenz(a,h)anthracene	0.8	NRO	2	17	NRO	<0.038	<0.039	<0.038	<0.037	<0.041	<0.039	<0.037
Dibenzofuran	NRO	NRO	NRO	820	NRO	<0.014	<0.014	<0.014	<0.013	<0.015	<0.014	<0.013
Diethyl phthalate	1000000	2000	470	1000000	2000	<0.018	<0.018	<0.017	<0.017	<0.019	<0.018	<0.017
Dimethyl phthalate	NRO	NRO	NRO	NRO	NRO	<0.0083	<0.0085	<0.0083	<0.0080	<0.0090	<0.0086	<0.0082
Di-n-butyl phthalate	200000	2300	2300	200000	2300	<0.012	<0.012	<0.012	<0.012	<0.013	<0.012	<0.012
Di-n-octyl phthalate	41000	10000	10000	4100	10000	<0.27	<0.27	<0.27	<0.26	<0.29	<0.28	<0.26
Fluoranthene	82000	NRO	4300	82000	NRO	<0.0089	<0.0091	<0.0088	<0.0086	0.032	0.013	<0.0087
Fluorene	82000	NRO	560	82000	NRO	<0.011	<0.012	<0.011	<0.011	<0.012	<0.012	<0.011
Hexachlorobenzene	4	1.8	2	78	2.6	<0.0073	<0.0075	<0.0073	<0.0071	<0.0080	<0.0076	<0.0072
Hexachlorobutadiene	2000	NRO	2.2	200	72	<0.022	<0.022	<0.021	<0.021	<0.023	<0.022	<0.021
Hexachlorocyclopentadiene	14000	16	400	14000	1.1	<0.41	<0.41	<0.40	<0.39	<0.44	<0.42	<0.40
Hexachloroethane	2000	NRO	0.5	2000	NRO	<0.019	<0.020	<0.019	<0.018	<0.021	<0.020	<0.019
Indeno[1,2,3-cd]pyrene	8	NRO	14	170	NRO	<0.037	<0.038	<0.037	<0.036	<0.040	<0.038	<0.037
Isophorone	410000	4600	8	410000	4600	<0.020	<0.020	<0.020	<0.019	<0.021	<0.020	<0.019
Naphthalene	41000	270	12	4100	1.8	<0.0069	<0.0071	<0.0069	<0.0067	0.033	<0.0071	<0.0068
Nitrobenzene	1000	140	0.1	1000	9.4	<0.012	<0.012	<0.012	<0.012	<0.013	<0.012	<0.012
N-Nitrosodi-n-propylamine	0.8	NRO	0.00005	18	NRO	<0.0075	<0.0077	<0.0075	<0.0073	<0.0082	<0.0078	<0.0074
N-Nitrosodiphenylamine	1200	NRO	1	25000	NRO	<0.023	<0.023	<0.023	<0.022	<0.025	<0.023	<0.022
Pentachlorophenol	24	NRO	0.02-0.03	520	NRO	<0.096	<0.098	<0.095	<0.092	<0.10	<0.099	<0.094
Phenanthrene	61000	NRO	210	61200	NRO	<0.0083	<0.0085	<0.0083	<0.0080	0.016	<0.0086	<0.0082
Phenol	610000	NRO	100	61000	NRO	<0.017	<0.017	<0.017	<0.016	<0.018	<0.017	<0.016
Pyrene	61000	NRO	4200	61000	NRO	<0.010	<0.011	<0.010	<0.010	0.021	<0.011	<0.010

Concentrations in excess of Tier 1 SROs are shaded yellow
Exceeded SROs are shaded green

NRO -- No Remediation Objective Listed in 35 IAC 742

SVOCs via USEPA Method 8270E

* - Per 742.510 if a SRO is less than the ADL, the ADL shall serve as the SRO

** - Indicates Metropolitan Background concentrations considered

Table 2 Cont. Summary of SVOC Concentrations in Soil
Samples Collected March 2024

Analyte	Tier 1 SROs					Sample Location and Depth (ft)					
	Industrial/Commercial		SCGI	Construction Worker		B-7	B-8	B-9	B-9	B-10	B-11
	Ingestion	Inhalation	Class I	Ingestion	Inhalation	11-13	8-10	8-10	13-15	8-10	5-7
	mg/kg										
1,2,4-Trichlorobenzene	20000	3200	5	2000	920	<0.027	<0.027	---	<0.027	---	<0.027
1,2-Dichlorobenzene	180000	560	17	18000	310	<0.015	<0.015	---	<0.015	---	<0.016
1,3-Dichlorobenzene	NRO	NRO	NRO	NRO	NRO	<0.017	<0.017	---	<0.017	---	<0.017
1,4-Dichlorobenzene	NRO	17000	2	NRO	340	<0.018	<0.018	---	<0.018	---	<0.018
2,2'-oxybis[1-chloropropane]	NRO	NRO	NRO	NRO	NRO	<0.027	<0.027	---	<0.027	---	<0.027
2,4,5-Trichlorophenol	200000	NRO	36-270	200000	NRO	<0.014	<0.014	---	<0.014	---	<0.014
2,4,6-Trichlorophenol	520	390	0.07-0.15	11000	540	<0.013	<0.013	---	<0.013	---	<0.013
2,4-Dichlorophenol	6100	NRO	0.56-1	610	NRO	<0.013	<0.013	---	<0.013	---	<0.013
2,4-Dimethylphenol	41000	NRO	9	41000	NRO	<0.083	<0.084	---	<0.084	---	<0.085
2,4-Dinitrophenol	4100	NRO	0.2	410	NRO	<0.22	<0.22	---	<0.22	---	<0.22
2,4-Dinitrotoluene	8.4	NRO	0.0008	180	NRO	<0.021	<0.021	---	<0.021	---	<0.022
2,6-Dinitrotoluene	8.4	NRO	0.0007	180	NRO	<0.013	<0.013	---	<0.013	---	<0.013
2-Chloronaphthalene	160000	NRO	49	160000	NRO	<0.014	<0.014	---	<0.014	---	<0.014
2-Chlorophenol	10000	53000	2.2-3.9	10000	53000	<0.012	<0.012	---	<0.012	---	<0.012
2-Methylnaphthalene	8200	NRO	9.5	820	NRO	1.1	<0.0075	---	0.57	---	<0.0077
2-Methylphenol	100000	NRO	1.9	100000	NRO	<0.020	<0.020	---	<0.020	---	<0.020
2-Nitroaniline	6100	56	0.14	610	3.6	<0.020	<0.020	---	<0.020	---	<0.020
2-Nitrophenol	NRO	NRO	NRO	NRO	NRO	<0.025	<0.025	---	<0.026	---	<0.026
3 & 4 Methylphenol	10000	NRO	0.2	1000	NRO	<0.027	<0.028	---	<0.028	---	<0.028
3,3'-Dichlorobenzidine	13	NRO	0.007	280	NRO	<0.030	<0.031	---	<0.031	---	<0.031
3-Nitroaniline	610	400	0.01	61	26	<0.017	<0.017	---	<0.017	---	<0.017
4,6-Dinitro-2-methylphenol	200	NRO	0.0031	820	NRO	<0.21	<0.21	---	<0.21	---	<0.22
4-Bromophenyl phenyl ether	NRO	NRO	NRO	NRO	NRO	<0.025	<0.026	---	<0.026	---	<0.026
4-Chloro-3-methylphenol	NRO	NRO	NRO	NRO	NRO	<0.014	<0.015	---	<0.015	---	<0.015
4-Chloroaniline	8200	NRO	0.7	820	NRO	<0.39	<0.39	---	<0.40	---	<0.40
4-Chlorophenyl phenyl ether	NRO	NRO	NRO	NRO	NRO	<0.049	<0.049	---	<0.049	---	<0.050
4-Nitroaniline	6100	1600	0.1	610	110	<0.027	<0.028	---	<0.028	---	<0.028
4-Nitrophenol	NRO	NRO	NRO	NRO	NRO	<0.14	<0.14	---	<0.14	---	<0.14
Acenaphthene	120000	NRO	570	120000	NRO	<0.0076	<0.0076	0.052	0.034	<0.016	<0.0078
Acenaphthylene	61000	NRO	85	61200	NRO	<0.0063	<0.0064	<0.0065	<0.0064	<0.013	<0.0065
Anthracene	610000	NRO	12000	610000	NRO	<0.0076	<0.0077	0.048	0.031	<0.016	<0.0078
Benzo[a]anthracene	8	NRO	2	170	NRO	<0.0079	<0.0080	0.048	<0.0080	0.12	<0.0081
Benzo[a]pyrene	0.8	NRO	8	17	NRO	<0.036	<0.036	<0.037	<0.036	<0.076	<0.037
Benzo[b]fluoranthene	8	NRO	5	170	NRO	<0.035	<0.036	<0.036	<0.036	<0.075	<0.036
Benzo[g,h,i]perylene	61000	NRO	27000	61200	NRO	<0.0081	<0.0081	<0.0083	<0.0082	0.073	0.020
Benzo[k]fluoranthene	78	NRO	49	1700	NRO	<0.014	<0.014	<0.014	<0.014	<0.030	<0.014
Bis(2-chloroethoxy)methane	NRO	NRO	NRO	NRO	NRO	<0.014	<0.014	---	<0.014	---	<0.014
Bis(2-chloroethyl)ether	5	0.47	0.0004	75	0.66	<0.017	<0.017	---	<0.017	---	<0.018
Bis(2-ethylhexyl) phthalate	410	31000	3600	4100	31000	<0.15	<0.15	---	<0.15	---	<0.15
Butyl benzyl phthalate	410000	930	930	410000	930	<0.019	<0.019	---	<0.019	---	<0.019
Carbazole	290	NRO	0.6	6200	NRO	<0.015	<0.015	---	<0.015	---	<0.015
Chrysene	780	NRO	160	17000	NRO	<0.0098	<0.0099	0.080	<0.0099	0.18	<0.010
Dibenz(a,h)anthracene	0.8	NRO	2	17	NRO	<0.037	<0.037	<0.038	<0.038	<0.078	<0.038
Dibenzofuran	NRO	NRO	NRO	820	NRO	<0.013	<0.013	---	0.024	---	<0.014
Diethyl phthalate	1000000	2000	470	1000000	2000	<0.017	<0.017	---	<0.017	---	<0.017
Dimethyl phthalate	NRO	NRO	NRO	NRO	NRO	<0.0081	<0.0082	---	<0.0082	---	<0.0083
Di-n-butyl phthalate	200000	2300	2300	200000	2300	<0.012	<0.012	---	<0.012	---	<0.012
Di-n-octyl phthalate	41000	10000	10000	4100	10000	<0.26	<0.26	---	<0.26	---	<0.27
Fluoranthene	82000	NRO	4300	82000	NRO	<0.0086	<0.0087	<0.0089	0.011	0.039	<0.0089
Fluorene	82000	NRO	560	82000	NRO	<0.011	<0.011	0.034	0.039	<0.023	<0.011
Hexachlorobenzene	4	1.8	2	78	2.6	<0.0071	<0.0072	---	<0.0072	---	<0.0073
Hexachlorobutadiene	2000	NRO	2.2	200	72	<0.021	<0.021	---	<0.021	---	<0.022
Hexachlorocyclopentadiene	14000	16	400	14000	1.1	<0.39	<0.40	---	<0.40	---	<0.40
Hexachloroethane	2000	NRO	0.5	2000	NRO	<0.019	<0.019	---	<0.019	---	<0.019
Indeno[1,2,3-cd]pyrene	8	NRO	14	170	NRO	<0.036	<0.037	<0.037	<0.037	<0.077	<0.037
Isophorone	410000	4600	8	410000	4600	<0.019	<0.019	---	<0.019	---	<0.020
Naphthalene	41000	270	12	4100	1.8	0.56	<0.0068	<0.0069	0.44	<0.014	<0.0069
Nitrobenzene	1000	140	0.1	1000	9.4	<0.012	<0.012	---	<0.012	---	<0.012
N-Nitrosodi-n-propylamine	0.8	NRO	0.00005	18	NRO	<0.0073	<0.0074	---	<0.0074	---	<0.0075
N-Nitrosodiphenylamine	1200	NRO	1	25000	NRO	<0.022	<0.022	---	<0.022	---	<0.023
Pentachlorophenol	24	NRO	0.02-0.03	520	NRO	<0.093	<0.094	---	<0.094	---	<0.095
Phenanthrene	61000	NRO	210	61200	NRO	0.026	<0.0082	0.041	0.21	0.098	<0.0083
Phenol	610000	NRO	100	61000	NRO	<0.016	<0.016	---	<0.016	---	<0.017
Pyrene	61000	NRO	4200	61000	NRO	<0.010	<0.010	0.076	0.031	0.21	<0.010

Concentrations in excess of Tier 1 SROs are shaded yellow
Exceeded SROs are shaded green
NRO – No Remediation Objective Listed in 35 IAC 742
SVOCs via USEPA Method 8270E
* - Per 742.510 if a SRO is less than the ADL, the ADL shall serve as the SRO
** - Indicates Metropolitan Background concentrations considered

Table 3. Summary of Metal and pH Concentrations in Soil
Samples Collected March 2024

Analyte	Industrial/Commercial		SCGI*	Construction Worker		Sample Location and Depth (ft)												
	Ingestion	Inhalation	Class I	Ingestion	Inhalation	B-2 5-7	B-3 5-7	B-3 13-15	B-4 5-7	B-5 4-6	B-6 5-7	B-6 13-15	B-7 11-13	B-8 8-10	B-9 8-10	B-9 13-15	B-10 8-10	B-11 5-7
Arsenic	13	1200	29-31 [13]	61	25000	8.3	9.8	8.6	7.8	7.1	7.8	12	6.4	8.5	--	8.4	--	9.3
Barium	140000	910000	1600-2100[110]	14000	870000	42	84	50	45	110	130	55	23	47	--	36	--	46
Cadmium	2000	2800	11-430[0.6]	200	59000	0.10	<0.041	<0.041	<0.036	0.15	0.11	0.049	<0.037	0.072	--	0.077	--	
Chromium	6100	420	28-32 [16.2]	4100	690	14	25	19	16	8	17	12	11	15	--	16	--	16
Lead	800	NRO	107 [36]	700	NRO	13	19	14	13	23	22	15	12	13	13	21	13	14
Selenium	10000	NRO	1.8-5.2 [0.48]	1000	NRO	<0.69	0.83	<0.68	<0.58	1.3	1.5	<0.65	<0.61	<0.58	--	1.2	--	0.88
Silver	10000	NRO	8.5-110[0.55]	1000	NRO	0.17	0.23	<0.15	0.14	<0.15	<0.14	<0.14	<0.13	<0.13	--	<0.14	--	<0.14
Mercury	610	16	2.1-8.0[0.06]	61	0.1	<0.0097	0.029	0.012	<0.0095	0.026	0.022	0.018	0.017	0.014	--	<0.0099	--	0.015
pH						8.59	6.70	--	7.62	7.05	6.98	--	8.13	8.58	8.71	--	8.51	8.47

Concentrations in excess of Tier 1 SROs are shaded yellow
Exceeded SROs are shaded green
NRO – No Remediation Objective listed in 35 IAC 742
* - Indicates that RO is pH specific
[x] - Indicates that background concentration was utilized as pH specific RO does not exist
Metals and pH via USEPA Method 6010B/9014

Table 4. Summary of BTEX Concentrations in Groundwater Samples Collected in March 2023

Analyte	Class I GROs	Sample Location
		TW-1
	mg/L	
Benzene	0.005	<0.00015
Ethylbenzene	0.7	<0.00018
Toluene	1	<0.00015
Xylenes, Total	10	0.00076

Concentrations in excess of Class 1 GROs are shaded yellow
Exceeded GROs are shaded green
NRO – No Remediation Objective listed in 35 IAC 742
VOCs via EPA Method 8260B

Table 5. Summary of PNA Concentrations in Groundwater Samples Collected on March 2023

Analyte	Class I GROs	Sample Location
		TW-1
	mg/L	
Acenaphthene	0.42	<0.00023
Acenaphthylene	0.21	<0.00020
Anthracene	2.1	<0.00025
Benzo[a]anthracene	0.00013	0.00013
Benzo[a]pyrene	0.0002	0.00016
Benzo[b]fluoranthene	**0.00018**	**0.00030**
Benzo[g,h,i]perylene	0.21	0.00035
Benzo[k]fluoranthene	0.00017	0.000089
Chrysene	0.0015	0.00013
Dibenz(a,h)anthracene	0.0003	<0.000037
Fluoranthene	0.28	<0.00034
Fluorene	0.28	<0.00018
Indeno[1,2,3-cd]pyrene	0.00043	0.00023
Naphthalene	0.14	<0.00023
Phenanthrene	0.21	<0.00022
Pyrene	0.21	<0.00031

Concentrations in excess of Class 1 GROs are shaded yellow
Exceeded GROs are shaded green
NRO – No Remediation Objective listed in 35 IAC 742
SVOCs via EPA Method 8270

Table 6. Summary of Lead Concentrations in Groundwater Samples Collected in March 2023

Analyte	Class I GROs	Sample Location
		TW-1
	mg/L	
Lead	**0.0075**	**0.014**

Concentrations in excess of Class 1 GROs are shaded yellow

Exceeded GROs are shaded green

NRO – No Remediation Objective listed in 35 IAC 742

Metals via EPA Method 6010B

Table 7. Summary of VOC Concentrations in Soil/Gas

Samples Collected March 2024

Analyte	Indoor RO Industrial/Commercial	Construction Worker Inhalation	Sample Location			
			SG-1	SG-2	SG-3	SG-4
	mg/m^3					
1,1,1-Trichloroethane	41,000	89,000	<0.011	<0.011	<0.17	<0.011
1,1,2-Trichloroethane	170,000	170,000	<0.011	<0.011	<0.17	<0.011
1,1-Dichloroethane	4,200	90,000	<0.0081	<0.0081	<0.12	<0.0081
1,1-Dichloroethylene	1,600	5,300	<0.0079	<0.0079	<0.12	<0.0079
1,2,4-Trichlorobenzene	25.0	110	<0.037	<0.037	<0.57	<0.037
1,2-Dibromoethane	0.0480	7.9	<0.015	<0.015	<0.24	<0.015
1,2-Dichlorobenzene	1,700	6,700	<0.012	<0.012	<0.18	<0.012
1,2-Dichloroethane	0.810	180	<0.0081	<0.0081	<0.12	<0.0081
1,2-Dichloropropane	2.30	110	<0.0092	<0.0092	0.78	<0.0092
1,4-Dichlorobenzene	6,800	6,400	<0.012	<0.012	<0.18	<0.012
2-Butanone (MEK)	40,000	15,000	<0.015	<0.015	<0.23	<0.015
Acetone	750,000	750,000	0.044	<0.12	<1.8	0.055
Benzene	2.80	1,100	0.0017	0.0076	0.12	0.0025
Bromodichloromethane	450,000	450,000	<0.013	<0.013	<0.21	<0.013
Bromoform	52	4,900	<0.021	<0.021	<0.32	<0.021
Butanol	29,000	29,000	<0.15	<0.15	<2.3	<0.15
Carbon disulfide	5,300	48,000	<0.016	0.014	<0.24	<0.016
Carbon tetrachloride	1.50	770	<0.013	<0.013	<0.19	<0.013
Chlorobenzene	420	3,700	<0.0092	<0.0092	<0.14	<0.0092
Chlorodibromomethane	57,000	150	<0.017	<0.017	<0.26	<0.017
Chloroform	0.92	290	<0.0098	<0.0098	<0.15	<0.0098
cis-1,2-Dichloroethylene	1,100,000	1,100,000	<0.0079	<0.0079	<0.12	<0.0079
Dichlorodifluoromethane	1,700	92,000	<0.025	<0.025	<0.38	<0.025
Ethylbenzene	9.3	8,500	0.84	<0.0087	0.61	<0.0087
Isopropylbenzene	3,500	30,000	0.0078	<0.0098	0.18	<0.0098
m+p-Xylene	820	3,100	2.1	<0.022	<0.33	0.0052
Methyl bromide	42.0	2,400	<0.0078	<0.0078	<0.12	<0.0078
Methyl tertiary butyl ether	24,000	23,000	<0.0072	<0.0072	<0.11	<0.0072
Methylene chloride	45.0	5,100	<0.017	<0.017	<0.27	<0.017
Naphthalene	0.75	5.8	<0.026	<0.026	<0.40	<0.026
o-Xylene	790	2,600	0.58	<0.0087	<0.13	<0.0087
p-Dioxane	2.30	42	<0.18	<0.18	<2.8	<0.18
Styrene	8,500	16,000	<0.0085	<0.0085	<0.13	<0.0085
Tetrachloroethylene	4.00	970	<0.014	<0.014	<0.21	<0.014
Toluene	40,000	50,000	0.060	0.0077	0.051	0.0086
trans-1,2-Dichloroethylene	510	12,000	<0.0079	<0.0079	<0.12	<0.0079
Trichloroethylene	12.0	1,500	<0.011	<0.011	<0.16	<0.011
Trichlorofluoromethane	5,600	220,000	<0.011	<0.011	<0.17	<0.011
Vinyl chloride	4.80	3,000	<0.0051	<0.0051	<0.078	<0.0051
Xylenes (total)	840	2,900	2.7	<0.030	<0.47	0.0052
cis-1,3-Dichloropropene	NRO	NRO	<0.0091	<0.0091	<0.14	<0.0091
trans-1,3-Dichloropropene	NRO	NRO	<0.0091	<0.0091	<0.14	<0.0091

Concentrations in excess of ROs are shaded yellow
Exceeded ROs are shaded green
Indoor ROs as Listed in 35 IAC 742 Appendix B - Table H
NRO – No Remedial Objective Listed
Air Analysis via USEPA Method TO-15

APPENDIX I
Soil Boring Logs

Project Name:	**Crest Hill SSI**	Sheet: **1 of 1**	Boring No:	**B-01**	
Client:	**City of Crest Hill**	Project No.: **53:4545-B**			
Site Location:	**1610 Plainfield Road, Crest Hill, Illinois, 60403**	Driller:	**Environmental Soil Probing**	Drill Rig:	**GeoProbe**
Latitude/Longitude:					

Depth/Elevation	PID READING	Sample Number	Sample Recovery (in)	Graphic Log	Soil Classification	Description
0	0.0	S-2	0		**Asphalt**	Asphalt Thickness[3.00"]
						(DEBRIS FILL)
	0.0	S-4	0			
	0.0	S-6	0		**Fill**	
5 -5	0.0	S-8	0			
	0.0	S-10	0			
10 -10	0.0	S-12	0			(CL) LEAN CLAY, gray, saturated
	0.0	S-14	0		**CL**	
	0.0	S-15	0			
15 -15						**END OF DRILLING AT 15.0 FT**

▽ WL (First Encountered)		Boring Started:	**Mar 21 2024**
▼ WL (Completion)		Boring Completed:	**Mar 21 2024**
Remarks:		Logged By:	**SMB5**
		Principal Engineer/ Responsible PG:	**Jason N. Warren**

Project Name:	**Crest Hill SSI**	Sheet: **1 of 1**	Boring No:	**B-02**	
Client:	**City of Crest Hill**	Project No.: **53:4545-B**			
Site Location:	**1610 Plainfield Road, Crest Hill, Illinois, 60403**	Driller:	**Environmental Soil Probing**	Drill Rig:	**GeoProbe**
Latitude/Longitude:					

Depth/Elevation	PID READING	Sample Number	Sample Recovery (in)	Graphic Log	Soil Classification	Description
	0.0	S-2	0		~~Concrete~~ CL/ML	Concrete Thickness[3.00"] (CL/ML) SILTY CLAY, brown
	0.0	S-4	0			(CL) LEAN CLAY, brown, dry
	0.0	S-6	0		CL	
5 -5	0.0	S-8	0			
	0.0	S-10	0			(CL) LEAN CLAY, brown, moist
10 -10	0.0	S-12	0		CL	
	0.0	S-14	0			
		S-15	0			
15 -15						**END OF DRILLING AT 15.0 FT**

▽ WL (First Encountered)		Boring Started:	**Mar 21 2024**
▼ WL (Completion)		Boring Completed:	**Mar 21 2024**
Remarks:		Logged By:	**SMB5**
		Principal Engineer/ Responsible PG:	**Jason N. Warren**

Project Name:	**Crest Hill SSI**	Sheet: **1 of 1**	Boring No:	**B-03**	
Client:	**City of Crest Hill**	Project No.: **53:4545-B**			
Site Location:	**1610 Plainfield Road, Crest Hill, Illinois, 60403**	Driller:	**Environmental Soil Probing**	Drill Rig:	**GeoProbe**
Latitude/Longitude:					

Depth/Elevation	PID READING	Sample Number	Sample Recovery (in)	Graphic Log	Soil Classification	Description
0	0.0		0		**Concrete**	Concrete Thickness[6.00"]
		S-2			**CL**	(CL) LEAN CLAY, brown, dry
	0.0		0			
		S-4			**CL**	(CL) LEAN CLAY, brown, moist
	0.0		0			
5 -5		S-6			**CL**	(CL) LEAN CLAY, dark brown/ black, moist
	0.0		0			
		S-8			**CL**	(CL) LEAN CLAY, brown, moist
	0.0		0			
		S-10				
10 -10	0.0		0			
		S-12			**CL**	(CL) LEAN CLAY, brown, dry
	0.0		0			
		S-14				
	0.0	S-15	0			
15 -15						**END OF DRILLING AT 15.0 FT**

▽ WL (First Encountered)		Boring Started:	**Mar 21 2024**
▼ WL (Completion)		Boring Completed:	**Mar 21 2024**
Remarks:		Logged By:	**SMB5**
		Principal Engineer/ Responsible PG:	**Jason N. Warren**

Project Name:	**Crest Hill SSI**	Sheet: **1 of 1**	Boring No:	**B-04**	
Client:	**City of Crest Hill**	Project No.: **53:4545-B**			
Site Location:	**1610 Plainfield Road, Crest Hill, Illinois, 60403**	Driller:	**Environmental Soil Probing**	Drill Rig:	**GeoProbe**
Latitude/Longitude:					

Depth/Elevation	PID READING	Sample Number	Sample Recovery (in)	Graphic Log	Soil Classification	Description
0	0.0		0		**Concrete**	Concrete Thickness[6.00"]
		S-2				(CL/ML) SILTY CLAY, brown, dry
	0.0		0			
		S-4				
	0.0		0			
5 -5		S-6				
	0.0		0			
		S-8				
	0.0		0		**CL/ML**	
		S-10				
10 -10	0.0		0			
		S-12				
	0.0		0			
		S-14				
	0.0		0			
		S-15				
15 -15						**END OF DRILLING AT 15.0 FT**

▽	WL (First Encountered)	Boring Started:	**Mar 21 2024**
▼	WL (Completion)	Boring Completed:	**Mar 21 2024**
Remarks:		Logged By:	**SMB5**
		Principal Engineer/ Responsible PG:	**Jason N. Warren**

Project Name: **Crest Hill SSI**	Sheet: **1 of 1**	Boring No:	**B-05**
Client: **City of Crest Hill**	Project No.: **53:4545-B**		
Site Location: **1610 Plainfield Road, Crest Hill, Illinois, 60403**	Driller: **Environmental Soil Probing**	Drill Rig:	**GeoProbe**
Latitude/Longitude:			

Depth/Elevation	PID READING	Sample Number	Sample Recovery (in)	Graphic Log	Soil Classification	Description
	0.0		0		**Concrete**	Concrete Thickness[6.00"]
		S-2				(CL) LEAN CLAY, brown, dry
	0.0		0		**CL**	
		S-4				
	7.6		0			(CL) LEAN CLAY, black, moist
5 -5		S-6			**CL**	
	3.2		0			(CL) LEAN CLAY, brown, dry
		S-8				
	0.0		0			
		S-10				
10 -10	0.0		0		**CL**	
		S-12				
	0.0		0			
		S-14				
	0.0		0			
		S-15				
15 -15						**END OF DRILLING AT 15.0 FT**

▽ WL (First Encountered)	Boring Started:	**Mar 21 2024**
▼ WL (Completion)	Boring Completed:	**Mar 21 2024**
Remarks:	Logged By:	**SMB5**
	Principal Engineer/ Responsible PG:	**Jason N. Warren**

Project Name: **Crest Hill SSI**	Sheet: **1 of 1**	Boring No:	**B-06**
Client: **City of Crest Hill**	Project No.: **53:4545-B**		
Site Location: **1610 Plainfield Road, Crest Hill, Illinois, 60403**	Driller: **Environmental Soil Probing**	Drill Rig:	**GeoProbe**
Latitude/Longitude:			

Depth/Elevation	PID READING	Sample Number	Sample Recovery (in)	Graphic Log	Soil Classification	Description
0	0.0		0		**Concrete**	Concrete Thickness[6.00"]
		S-2			**CL/ML**	(CL/ML) SILTY CLAY, brown/ gray, dry
	0.0		0			(CL) LEAN CLAY, brown, dry
		S-4			**CL**	
	0.0		0			
5 -5		S-6				
	0.0		0			(CL) LEAN CLAY, dark brown, dry
		S-8			**CL**	
	0.0		0			
		S-10				(CL) LEAN CLAY, reddish brown, moist to wet
10 -10	0.0		0		**CL**	
		S-12				
	0.0		0			(CL) LEAN CLAY, gray, moist
		S-14			**CL**	
	0.0		0			
		S-15				
15 -15						**END OF DRILLING AT 15.0 FT**

▽ WL (First Encountered)	Boring Started: **Mar 21 2024**
▼ WL (Completion)	Boring Completed: **Mar 21 2024**
Remarks:	Logged By: **SMB5**
	Principal Engineer/ Responsible PG: **Jason N. Warren**

Project Name:	**Crest Hill SSI**	Sheet: **1 of 1**	Boring No:	**B-07**	
Client:	**City of Crest Hill**	Project No.: **53:4545-B**			
Site Location:	**1610 Plainfield Road, Crest Hill, Illinois, 60403**	Driller:	**Environmental Soil Probing**	Drill Rig:	**GeoProbe**
Latitude/Longitude:					

Depth/Elevation	PID READING	Sample Number	Sample Recovery (in)	Graphic Log	Soil Classification	Description
0	0.0	S-2	0		**Topsoil**	Topsoil Thickness[12.00"]
	0.0	S-4	0		**CL/ML**	(CL/ML) SILTY CLAY, brown
	0.0	S-6	0			
5 -5	0.0	S-8	0			
	0.0	S-10	0			
10 -10	383.8	S-12	0		**CL**	(CL) LEAN CLAY, brown, moist
	30.9	S-14	0		**CL**	(CL) LEAN CLAY, brown, moist
	637.0	S-15	0			
15 -15						**END OF DRILLING AT 15.0 FT**

▽ WL (First Encountered)		Boring Started:	**Mar 21 2024**
▼ WL (Completion)		Boring Completed:	**Mar 21 2024**
Remarks:		Logged By:	**SMB5**
		Principal Engineer/ Responsible PG:	**Jason N. Warren**

Project Name:	**Crest Hill SSI**	Sheet: **1 of 1**	Boring No:	**B-08**	
Client:	**City of Crest Hill**	Project No.: **53:4545-B**			
Site Location:	**1610 Plainfield Road, Crest Hill, Illinois, 60403**	Driller:	**Environmental Soil Probing**	Drill Rig:	**GeoProbe**
Latitude/Longitude:					

Depth/Elevation	PID READING	Sample Number	Sample Recovery (in)	Graphic Log	Soil Classification	Description
0	0.0		0		**Concrete**	Concrete Thickness[6.00"]
		S-2				(CL/ML) SILTY CLAY, brown, dry
	0.0		0			
		S-4				
	0.0		0			
5 -5		S-6			**CL/ML**	
	0.0		0			
		S-8				
	0.0		0			
		S-10				
10 -10	0.0		0		**CL**	(CL) LEAN CLAY, brown, dry
		S-12				(CL) LEAN CLAY, brown, moist
	0.0		0			
		S-14			**CL**	
	0.0		0			
		S-15				
15 -15						**END OF DRILLING AT 15.0 FT**

▽ WL (First Encountered)		Boring Started:	**Mar 21 2024**
▼ WL (Completion)		Boring Completed:	**Mar 21 2024**
Remarks:		Logged By:	**SMB5**
		Principal Engineer/ Responsible PG:	**Jason N. Warren**

Project Name:	**Crest Hill SSI**	Sheet: **1 of 1**	Boring No:	**B-09**	
Client:	**City of Crest Hill**	Project No.: **53:4545-B**			
Site Location:	**1610 Plainfield Road, Crest Hill, Illinois, 60403**	Driller:	**Environmental Soil Probing**	Drill Rig:	**GeoProbe**
Latitude/Longitude:					

Depth/Elevation	PID READING	Sample Number	Sample Recovery (in)	Graphic Log	Soil Classification	Description
0	0.0		0		**Asphalt**	Asphalt Thickness[6.00"]
		S-2			**SP**	(SP) SAND, black, moist
	0.0		0			(CL) LEAN CLAY, gray, moist
		S-4			**CL**	
	0.0		0			
5 -5		S-6				
	0.0		0			(CL) LEAN CLAY, brown, dry to moist
		S-8			**CL**	
	1.5		0			
		S-10				
10 -10	0.0		0			
		S-12				
	0.0		0			(CL) LEAN CLAY, gray, moist
		S-14			**CL**	
	0.0		0			
		S-15				
15 -15						**END OF DRILLING AT 15.0 FT**

▽ WL (First Encountered)		Boring Started:	**Mar 21 2024**
▼ WL (Completion)		Boring Completed:	**Mar 21 2024**
Remarks:		Logged By:	**SMB5**
		Principal Engineer/ Responsible PG:	**Jason N. Warren**

Project Name:	**Crest Hill SSI**	Sheet: **1 of 1**	Boring No:	**B-10**	
Client:	**City of Crest Hill**	Project No.: **53:4545-B**			
Site Location:	**1610 Plainfield Road, Crest Hill, Illinois, 60403**	Driller:	**Environmental Soil Probing**	Drill Rig:	**GeoProbe**
Latitude/Longitude:					

Depth/Elevation	PID READING	Sample Number	Sample Recovery (in)	Graphic Log	Soil Classification	Description
0	0.0	S-2	0		**Topsoil**	Topsoil Thickness[18.00"]
	0.0	S-4	0		**Fill**	(DEBRIS FILL)
	0.0	S-6	0			
5 -5	0.0	S-8	0		**CL/ML**	(CL/ML) SILTY CLAY, brown, dry
	0.0	S-10	0		**Fill**	(DEBRIS FILL)
10 -10	0.0	S-12	0		**CL/ML**	(CL/ML) SILTY CLAY, gray/ brown, dry
	3.7	S-14	0		**CL**	(CL) LEAN CLAY, brown, moist
	0.0	S-15	0			
15 -15						**END OF DRILLING AT 15.0 FT**

▽ WL (First Encountered)		Boring Started:	**Mar 21 2024**
▼ WL (Completion)		Boring Completed:	**Mar 21 2024**
Remarks:		Logged By:	**SMB5**
		Principal Engineer/ Responsible PG:	**Jason N. Warren**

Project Name:	**Crest Hill SSI**	Sheet: **1 of 1**	Boring No:	**B-11**	
Client:	**City of Crest Hill**	Project No.: **53:4545-B**			
Site Location:	**1610 Plainfield Road, Crest Hill, Illinois, 60403**	Driller:	**Environmental Soil Probing**	Drill Rig:	**GeoProbe**
Latitude/Longitude:					

Depth/Elevation	PID READING	Sample Number	Sample Recovery (in)	Graphic Log	Soil Classification	Description
0	0.0	S-2	0		**Topsoil**	Topsoil Thickness[18.00"]
	0.0	S-4	0		**CL/ML**	(CL/ML) SILTY CLAY, brown, dry
	0.0	S-6	0			
5 -5	0.0	S-8	0			
	0.0	S-10	0		**CL**	(CL) LEAN CLAY, brown, dry to moist
10 -10	0.0	S-12	0			
	0.0	S-14	0		**CL**	(CL) LEAN CLAY, gray, moist
	0.0	S-15	0			
15 -15						**END OF DRILLING AT 15.0 FT**

▽ WL (First Encountered)		Boring Started:	**Mar 21 2024**
▼ WL (Completion)		Boring Completed:	**Mar 21 2024**
Remarks:		Logged By:	**SMB5**
		Principal Engineer/ Responsible PG:	**Jason N. Warren**

Crest Hill SSI
ECS Project No. 53:4545-B
April 2024

APPENDIX II
Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike McGee
ECS Midwest LLC
1575 Barclay Blvd.
Buffalo Grove, Illinois 60089

Generated 3/29/2024 4:51:35 PM

JOB DESCRIPTION

Crest Hill SSI

JOB NUMBER

500-247959-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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Authorized for release by
Shawn Hayes, Senior Project Manager
Shawn.Hayes@et.eurofinsus.com
Designee for
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

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Job Narrative
500-247959-1

Receipt
The samples were received on 03/22/24 14:12. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9º C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): Sample #6 COC list sample time as 1045 however sample containers list sample time of 1135. Logged per COC.

GC/MS VOA
Method 8260D: Surrogate recovery for the following sample was outside control limits: B-9 (13-15') (500-247959-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: B-7 (500-247959-8), (500-247959-D-8-A MS) and (500-247959-D-8-A MSD). Elevated reporting limits (RLs) are provided.

Method 8260D: The method blank for preparation batch 500-759682 and analytical batch 500-760288 contained Chloroform above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 500-759682 and analytical batch 500-760288 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260D: Due to the high concentration of Ethylbenzene, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 500-759682 and analytical batch 500-760288 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in batch 500-759965 was outside the method criteria for the following analyte: Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-759965 was outside the method criteria for the following analytes: Di-n-octyl phthalate and N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: B-10 (500-247959-12). Elevated reporting limits (RLs) are provided.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-760133 was outside the method criteria for the following analyte: Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010D: The linear range check standard (LRC) standard for AD batch 760340 recovered low for Pb. The high standard read back was within control. Sample results were below the high standard and have been qualified and reported. (LRC 500-760340/22)

Method 6010D: The initial low level calibration verification (ICVL) result for batch 760340 was above the upper control limit. The affected analyte is: Se. Sample results were below the reporting limit and have been reported as qualified data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 500-247959-1 (Continued) Eurofins Chicago

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-2 — Lab Sample ID: 500-247959-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.3		1.2	0.40	mg/Kg	1	☼	6010D	Total/NA
Barium	42		1.2	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.10	J	0.23	0.042	mg/Kg	1	☼	6010D	Total/NA
Chromium	14		1.2	0.58	mg/Kg	1	☼	6010D	Total/NA
Lead	13	^5-	0.58	0.27	mg/Kg	1	☼	6010D	Total/NA
Silver	0.17	J	0.58	0.15	mg/Kg	1	☼	6010D	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: B-3 — Lab Sample ID: 500-247959-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.042		0.018	0.0080	mg/Kg	1	☼	8260D	Total/NA
Methyl Ethyl Ketone	0.0084		0.0046	0.0020	mg/Kg	1	☼	8260D	Total/NA
Arsenic	9.8		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Barium	84		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Chromium	25		1.1	0.56	mg/Kg	1	☼	6010D	Total/NA
Lead	19	^5-	0.56	0.26	mg/Kg	1	☼	6010D	Total/NA
Selenium	0.83	J ^1+	1.1	0.66	mg/Kg	1	☼	6010D	Total/NA
Silver	0.23	J	0.56	0.15	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.029		0.020	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	6.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: B-4 — Lab Sample ID: 500-247959-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00058	J	0.0016	0.00041	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0019		0.0016	0.00041	mg/Kg	1	☼	8260D	Total/NA
Arsenic	7.8		0.99	0.34	mg/Kg	1	☼	6010D	Total/NA
Barium	45		0.99	0.11	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		0.99	0.49	mg/Kg	1	☼	6010D	Total/NA
Lead	13	^5-	0.49	0.23	mg/Kg	1	☼	6010D	Total/NA
Silver	0.14	J	0.49	0.13	mg/Kg	1	☼	6010D	Total/NA
pH	7.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: B-5 — Lab Sample ID: 500-247959-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.010		0.0018	0.00047	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0010	J	0.0018	0.00046	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.015		0.0037	0.00058	mg/Kg	1	☼	8260D	Total/NA
2-Methylnaphthalene	0.020	J	0.084	0.0083	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.032	J	0.041	0.0096	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.033	J	0.041	0.0075	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.016	J	0.041	0.0090	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.021	J	0.041	0.011	mg/Kg	1	☼	8270E	Total/NA
Arsenic	7.1		1.2	0.40	mg/Kg	1	☼	6010D	Total/NA
Barium	110		1.2	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.15	J	0.23	0.042	mg/Kg	1	☼	6010D	Total/NA
Chromium	18		1.2	0.58	mg/Kg	1	☼	6010D	Total/NA
Lead	23	^5-	0.59	0.27	mg/Kg	1	☼	6010D	Total/NA
Selenium	1.3	^1+	1.2	0.69	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.026		0.021	0.011	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-5 (Continued) — Lab Sample ID: 500-247959-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: B-6 — Lab Sample ID: 500-247959-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0099	J	0.039	0.0084	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.015	J	0.039	0.010	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.013	J	0.039	0.0092	mg/Kg	1	☼	8270E	Total/NA
Arsenic	7.8		1.1	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	130		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.11	J	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Lead	22	^5-	0.53	0.25	mg/Kg	1	☼	6010D	Total/NA
Selenium	1.5	^1+	1.1	0.63	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.022		0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	7.0		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: B-6 (13-15') — Lab Sample ID: 500-247959-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0026		0.0018	0.00045	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0012	J	0.0035	0.00056	mg/Kg	1	☼	8260D	Total/NA
Arsenic	12		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Barium	44		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.049	J	0.22	0.040	mg/Kg	1	☼	6010D	Total/NA
Chromium	12		1.1	0.55	mg/Kg	1	☼	6010D	Total/NA
Lead	15	^5-	0.56	0.26	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.018	J	0.019	0.0098	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-3 (13-15') — Lab Sample ID: 500-247959-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.6		1.1	0.39	mg/Kg	1	☼	6010D	Total/NA
Barium	50		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		1.1	0.57	mg/Kg	1	☼	6010D	Total/NA
Lead	14	^5-	0.57	0.27	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.012	J	0.017	0.0092	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-7 — Lab Sample ID: 500-247959-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Hexanone	0.70	F1	0.20	0.061	mg/Kg	50	☼	8260D	Total/NA
Acetone	0.17	J F2 F1	0.39	0.068	mg/Kg	50	☼	8260D	Total/NA
Benzene	0.043		0.0098	0.0057	mg/Kg	50	☼	8260D	Total/NA
Ethylbenzene	7.6	F1	0.0098	0.0072	mg/Kg	50	☼	8260D	Total/NA
Methyl Ethyl Ketone	2.0	F1	0.20	0.083	mg/Kg	50	☼	8260D	Total/NA
Toluene	0.013		0.0098	0.0058	mg/Kg	50	☼	8260D	Total/NA
Xylenes, Total	0.65		0.020	0.0086	mg/Kg	50	☼	8260D	Total/NA
2-Methylnaphthalene	1.1		0.075	0.0075	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.56		0.037	0.0067	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.026	J	0.037	0.0081	mg/Kg	1	☼	8270E	Total/NA
Arsenic	6.4		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Barium	23		1.0	0.12	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-7 (Continued) — Lab Sample ID: 500-247959-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	11		1.0	0.51	mg/Kg	1	☼	6010D	Total/NA
Lead	12	^5-	0.52	0.24	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.017		0.017	0.0091	mg/Kg	1	☼	7471B	Total/NA
pH	8.1		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: B-8 — Lab Sample ID: 500-247959-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.5		0.99	0.34	mg/Kg	1	☼	6010D	Total/NA
Barium	47		0.99	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.072	J	0.20	0.036	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		0.99	0.49	mg/Kg	1	☼	6010D	Total/NA
Lead	13	^5-	0.49	0.23	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.014	J	0.018	0.0094	mg/Kg	1	☼	7471B	Total/NA
pH	8.6		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: B-9 — Lab Sample ID: 500-247959-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.052		0.038	0.0078	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.048		0.038	0.0078	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.048		0.038	0.0081	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.080		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.034	J	0.038	0.011	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.041		0.038	0.0083	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.076		0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Lead	13	^5-	0.57	0.26	mg/Kg	1	☼	6010D	Total/NA
pH	8.7		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: B-9 (13-15') — Lab Sample ID: 500-247959-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.022		0.0015	0.00039	mg/Kg	1	☼	8260D	Total/NA
Ethylbenzene	0.027		0.0015	0.00073	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.0011	J	0.0015	0.00039	mg/Kg	1	☼	8260D	Total/NA
Xylenes, Total	0.0053		0.0031	0.00049	mg/Kg	1	☼	8260D	Total/NA
2-Methylnaphthalene	0.57		0.076	0.0076	mg/Kg	1	☼	8270E	Total/NA
Acenaphthene	0.034	J	0.038	0.0077	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.031	J	0.038	0.0077	mg/Kg	1	☼	8270E	Total/NA
Dibenzofuran	0.024	J	0.19	0.013	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.011	J	0.038	0.0088	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.039		0.038	0.011	mg/Kg	1	☼	8270E	Total/NA
Naphthalene	0.44		0.038	0.0068	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.21		0.038	0.0082	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.031	J	0.038	0.010	mg/Kg	1	☼	8270E	Total/NA
Arsenic	8.4		1.1	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	36		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.077	J	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Lead	21	^5-	0.53	0.25	mg/Kg	1	☼	6010D	Total/NA
Selenium	1.2	^1+	1.1	0.62	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-10 — Lab Sample ID: 500-247959-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.12		0.078	0.017	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.073	J	0.078	0.017	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.18		0.078	0.021	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.039	J	0.078	0.018	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.098		0.078	0.017	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.21		0.078	0.022	mg/Kg	2	☼	8270E	Total/NA
Lead	13	^5-	0.56	0.26	mg/Kg	1	☼	6010D	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: B-11 — Lab Sample ID: 500-247959-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	0.020	J	0.038	0.0083	mg/Kg	1	☼	8270E	Total/NA
Arsenic	9.3		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	46		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.096	J	0.21	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Lead	14	^5-	0.54	0.25	mg/Kg	1	☼	6010D	Total/NA
Selenium	0.88	J ^1+	1.1	0.63	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.015	J	0.019	0.010	mg/Kg	1	☼	7471B	Total/NA
pH	8.5		0.2	0.2	SU	1		9045D	Total/NA

Client Sample ID: TW-1 — Lab Sample ID: 500-247959-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	0.00076	J	0.0010	0.00022	mg/L	1		8260D	Total/NA
Benzo[a]anthracene	0.00013		0.00012	0.000042	mg/L	1		8270E	Total/NA
Benzo[a]pyrene	0.00016		0.00015	0.000073	mg/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.00030		0.00015	0.000060	mg/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	0.00035	J	0.00074	0.00028	mg/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.000089	J	0.00015	0.000047	mg/L	1		8270E	Total/NA
Chrysene	0.00013	J	0.00015	0.000050	mg/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.00023		0.00015	0.000055	mg/L	1		8270E	Total/NA
Lead	0.014		0.0050	0.0027	mg/L	1		6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-247959-1	B-2	Solid	03/21/24 09:15	03/22/24 14:12
500-247959-2	B-3	Solid	03/21/24 09:30	03/22/24 14:12
500-247959-3	B-4	Solid	03/21/24 09:45	03/22/24 14:12
500-247959-4	B-5	Solid	03/21/24 10:15	03/22/24 14:12
500-247959-5	B-6	Solid	03/21/24 10:45	03/22/24 14:12
500-247959-6	B-6 (13-15')	Solid	03/21/24 10:45	03/22/24 14:12
500-247959-7	B-3 (13-15')	Solid	03/21/24 09:30	03/22/24 14:12
500-247959-8	B-7	Solid	03/21/24 11:30	03/22/24 14:12
500-247959-9	B-8	Solid	03/21/24 10:50	03/22/24 14:12
500-247959-10	B-9	Solid	03/21/24 11:50	03/22/24 14:12
500-247959-11	B-9 (13-15')	Solid	03/21/24 11:50	03/22/24 14:12
500-247959-12	B-10	Solid	03/21/24 11:00	03/22/24 14:12
500-247959-13	B-11	Solid	03/21/24 11:20	03/22/24 14:12
500-247959-14	TW-1	Water	03/21/24 09:15	03/22/24 14:12

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-2
Date Collected: 03/21/24 09:15
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-1
Matrix: Solid
Percent Solids: 85.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0016	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
1,1,2,2-Tetrachloroethane	ND		0.0016	0.00050	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
1,1,2-Trichloroethane	ND		0.0016	0.00067	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
1,1-Dichloroethane	ND		0.0016	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
1,1-Dichloroethene	ND		0.0016	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
1,2-Dichloroethane	ND		0.0039	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
1,2-Dichloropropane	ND		0.0016	0.00041	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
1,3-Dichloropropene, Total	ND		0.0016	0.00055	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
2-Hexanone	ND		0.0039	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Acetone	ND		0.016	0.0068	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Benzene	ND		0.0016	0.00040	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Bromodichloromethane	ND		0.0016	0.00032	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Bromoform	ND		0.0016	0.00046	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Bromomethane	ND		0.0039	0.0015	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Carbon disulfide	ND		0.0039	0.00081	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Carbon tetrachloride	ND		0.0016	0.00045	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Chlorobenzene	ND		0.0016	0.00058	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Chloroethane	ND		0.0039	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Chloroform	ND		0.0016	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Chloromethane	ND		0.0039	0.0016	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
cis-1,2-Dichloroethene	ND		0.0016	0.00044	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
cis-1,3-Dichloropropene	ND		0.0016	0.00047	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Dibromochloromethane	ND		0.0016	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Ethylbenzene	ND		0.0016	0.00075	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Methyl Ethyl Ketone	ND		0.0039	0.0017	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
methyl isobutyl ketone	ND		0.0039	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Methyl tert-butyl ether	ND		0.0016	0.00046	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Methylene Chloride	ND		0.0039	0.0015	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Styrene	ND		0.0016	0.00047	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Tetrachloroethene	ND		0.0016	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Toluene	ND		0.0016	0.00040	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
trans-1,2-Dichloroethene	ND		0.0016	0.00069	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
trans-1,3-Dichloropropene	ND		0.0016	0.00055	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Trichloroethene	ND		0.0016	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Vinyl chloride	ND		0.0016	0.00069	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1
Xylenes, Total	ND		0.0031	0.00050	mg/Kg	☼	03/22/24 18:13	03/27/24 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*127*		*70 - 134*	*03/22/24 18:13*	*03/27/24 12:17*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*	*03/22/24 18:13*	*03/27/24 12:17*	*1*
Dibromofluoromethane	*110*		*75 - 126*	*03/22/24 18:13*	*03/27/24 12:17*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*03/22/24 18:13*	*03/27/24 12:17*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
1,2-Dichlorobenzene	ND		0.19	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
1,3-Dichlorobenzene	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
1,4-Dichlorobenzene	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2,2'-oxybis[1-chloropropane]	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1

Client Sample ID: B-2
Date Collected: 03/21/24 09:15
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-1
Matrix: Solid
Percent Solids: 85.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.38	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2,4,6-Trichlorophenol	ND		0.38	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2,4-Dichlorophenol	ND		0.38	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2,4-Dimethylphenol	ND		0.38	0.086	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2,4-Dinitrophenol	ND		0.77	0.22	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2,4-Dinitrotoluene	ND		0.19	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2,6-Dinitrotoluene	ND		0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2-Chloronaphthalene	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2-Chlorophenol	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2-Methylnaphthalene	ND		0.077	0.0077	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2-Methylphenol	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2-Nitroaniline	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
2-Nitrophenol	ND		0.38	0.026	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
3 & 4 Methylphenol	ND		0.19	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
3,3'-Dichlorobenzidine	ND		0.19	0.031	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
3-Nitroaniline	ND		0.38	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
4,6-Dinitro-2-methylphenol	ND		0.77	0.22	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
4-Bromophenyl phenyl ether	ND		0.19	0.026	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
4-Chloro-3-methylphenol	ND		0.38	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
4-Chloroaniline	ND		0.77	0.40	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
4-Chlorophenyl phenyl ether	ND		0.19	0.050	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
4-Nitroaniline	ND		0.38	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
4-Nitrophenol	ND		0.77	0.14	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Acenaphthene	ND		0.038	0.0078	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Acenaphthylene	ND		0.038	0.0065	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Anthracene	ND		0.038	0.0078	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Benzo[a]anthracene	ND		0.038	0.0081	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Benzo[a]pyrene	ND		0.038	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Benzo[b]fluoranthene	ND		0.038	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Benzo[g,h,i]perylene	ND		0.038	0.0083	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Benzo[k]fluoranthene	ND		0.038	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Bis(2-chloroethoxy)methane	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Bis(2-chloroethyl)ether	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Bis(2-ethylhexyl) phthalate	ND		0.19	0.15	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Butyl benzyl phthalate	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Carbazole	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Chrysene	ND		0.038	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Dibenz(a,h)anthracene	ND		0.038	0.038	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Dibenzofuran	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Diethyl phthalate	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Dimethyl phthalate	ND		0.19	0.0083	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Di-n-butyl phthalate	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Di-n-octyl phthalate	ND		0.38	0.27	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Fluoranthene	ND		0.038	0.0089	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Fluorene	ND		0.038	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Hexachlorobenzene	ND		0.077	0.0073	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Hexachlorobutadiene	ND		0.19	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Hexachlorocyclopentadiene	ND		0.77	0.41	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Hexachloroethane	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1

Client Sample ID: B-2
Date Collected: 03/21/24 09:15
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-1
Matrix: Solid
Percent Solids: 85.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.038	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Isophorone	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Naphthalene	ND		0.038	0.0069	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Nitrobenzene	ND		0.038	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
N-Nitrosodi-n-propylamine	ND		0.077	0.0075	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
N-Nitrosodiphenylamine	ND		0.19	0.023	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Pentachlorophenol	ND		0.77	0.096	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Phenanthrene	ND		0.038	0.0083	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Phenol	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1
Pyrene	ND		0.038	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*65*		*31 - 143*	*03/25/24 13:48*	*03/26/24 13:48*	*1*
2-Fluorobiphenyl	*57*		*43 - 145*	*03/25/24 13:48*	*03/26/24 13:48*	*1*
2-Fluorophenol (Surr)	*52*		*31 - 166*	*03/25/24 13:48*	*03/26/24 13:48*	*1*
Nitrobenzene-d5	*55*		*37 - 147*	*03/25/24 13:48*	*03/26/24 13:48*	*1*
Phenol-d5 (Surr)	*58*		*30 - 153*	*03/25/24 13:48*	*03/26/24 13:48*	*1*
Terphenyl-d14	*65*		*42 - 157*	*03/25/24 13:48*	*03/26/24 13:48*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.3**		1.2	0.40	mg/Kg	☼	03/25/24 09:47	03/27/24 17:12	1
Barium	**42**		1.2	0.13	mg/Kg	☼	03/25/24 09:47	03/28/24 14:19	1
Cadmium	**0.10**	**J**	0.23	0.042	mg/Kg	☼	03/25/24 09:47	03/27/24 17:12	1
Chromium	**14**		1.2	0.58	mg/Kg	☼	03/25/24 09:47	03/27/24 17:12	1
Lead	**13**	**^5-**	0.58	0.27	mg/Kg	☼	03/25/24 09:47	03/27/24 17:12	1
Selenium	ND	^1+	1.2	0.69	mg/Kg	☼	03/25/24 09:47	03/27/24 17:12	1
Silver	**0.17**	**J**	0.58	0.15	mg/Kg	☼	03/25/24 09:47	03/27/24 17:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.018	0.0097	mg/Kg	☼	03/27/24 16:30	03/28/24 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.6**		0.2	0.2	SU			03/27/24 14:08	1

Client Sample ID: B-3
Date Collected: 03/21/24 09:30
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-2
Matrix: Solid
Percent Solids: 81.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0018	0.00062	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
1,1,2,2-Tetrachloroethane	ND		0.0018	0.00059	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
1,1,2-Trichloroethane	ND		0.0018	0.00079	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
1,1-Dichloroethane	ND		0.0018	0.00063	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
1,1-Dichloroethene	ND		0.0018	0.00063	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
1,2-Dichloroethane	ND		0.0046	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
1,2-Dichloropropane	ND		0.0018	0.00048	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
1,3-Dichloropropene, Total	ND		0.0018	0.00065	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
2-Hexanone	ND		0.0046	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Acetone	**0.042**		0.018	0.0080	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Benzene	ND		0.0018	0.00047	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Bromodichloromethane	ND		0.0018	0.00038	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Bromoform	ND		0.0018	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Bromomethane	ND		0.0046	0.0017	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Carbon disulfide	ND		0.0046	0.00096	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Carbon tetrachloride	ND		0.0018	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Chlorobenzene	ND		0.0018	0.00068	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Chloroethane	ND		0.0046	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Chloroform	ND		0.0018	0.00064	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Chloromethane	ND		0.0046	0.0019	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
cis-1,2-Dichloroethene	ND		0.0018	0.00052	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
cis-1,3-Dichloropropene	ND		0.0018	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Dibromochloromethane	ND		0.0018	0.00060	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Ethylbenzene	ND		0.0018	0.00088	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Methyl Ethyl Ketone	**0.0084**		0.0046	0.0020	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
methyl isobutyl ketone	ND		0.0046	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Methyl tert-butyl ether	ND		0.0018	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Methylene Chloride	ND		0.0046	0.0018	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Styrene	ND		0.0018	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Tetrachloroethene	ND		0.0018	0.00063	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Toluene	ND		0.0018	0.00047	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
trans-1,2-Dichloroethene	ND		0.0018	0.00082	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
trans-1,3-Dichloropropene	ND		0.0018	0.00065	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Trichloroethene	ND		0.0018	0.00062	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Vinyl chloride	ND		0.0018	0.00082	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1
Xylenes, Total	ND		0.0037	0.00059	mg/Kg	☼	03/22/24 18:13	03/27/24 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 134*	*03/22/24 18:13*	*03/27/24 12:42*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*03/22/24 18:13*	*03/27/24 12:42*	*1*
Dibromofluoromethane	*114*		*75 - 126*	*03/22/24 18:13*	*03/27/24 12:42*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*03/22/24 18:13*	*03/27/24 12:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.20	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
1,2-Dichlorobenzene	ND		0.20	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
1,3-Dichlorobenzene	ND		0.20	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
1,4-Dichlorobenzene	ND		0.20	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2,2'-oxybis[1-chloropropane]	ND		0.20	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1

Client Sample ID: B-3
Date Collected: 03/21/24 09:30
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-2
Matrix: Solid
Percent Solids: 81.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.39	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2,4,6-Trichlorophenol	ND		0.39	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2,4-Dichlorophenol	ND		0.39	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2,4-Dimethylphenol	ND		0.39	0.088	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2,4-Dinitrophenol	ND		0.79	0.23	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2,4-Dinitrotoluene	ND		0.20	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2,6-Dinitrotoluene	ND		0.20	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2-Chloronaphthalene	ND		0.20	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2-Chlorophenol	ND		0.20	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2-Methylnaphthalene	ND		0.079	0.0078	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2-Methylphenol	ND		0.20	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2-Nitroaniline	ND		0.20	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
2-Nitrophenol	ND		0.39	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
3 & 4 Methylphenol	ND		0.20	0.029	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
3,3'-Dichlorobenzidine	ND		0.20	0.032	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
3-Nitroaniline	ND		0.39	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
4,6-Dinitro-2-methylphenol	ND		0.79	0.22	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
4-Bromophenyl phenyl ether	ND		0.20	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
4-Chloro-3-methylphenol	ND		0.39	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
4-Chloroaniline	ND		0.79	0.41	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
4-Chlorophenyl phenyl ether	ND		0.20	0.051	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
4-Nitroaniline	ND		0.39	0.029	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
4-Nitrophenol	ND		0.79	0.14	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Acenaphthene	ND		0.039	0.0080	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Acenaphthylene	ND		0.039	0.0066	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Anthracene	ND		0.039	0.0080	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Benzo[a]anthracene	ND		0.039	0.0083	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Benzo[a]pyrene	ND		0.039	0.038	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Benzo[b]fluoranthene	ND		0.039	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Benzo[g,h,i]perylene	ND		0.039	0.0085	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Benzo[k]fluoranthene	ND		0.039	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Bis(2-chloroethoxy)methane	ND		0.20	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Bis(2-chloroethyl)ether	ND		0.20	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Bis(2-ethylhexyl) phthalate	ND		0.20	0.15	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Butyl benzyl phthalate	ND		0.20	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Carbazole	ND		0.20	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Chrysene	ND		0.039	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Dibenz(a,h)anthracene	ND		0.039	0.039	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Dibenzofuran	ND		0.20	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Diethyl phthalate	ND		0.20	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Dimethyl phthalate	ND		0.20	0.0085	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Di-n-butyl phthalate	ND		0.20	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Di-n-octyl phthalate	ND		0.39	0.27	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Fluoranthene	ND		0.039	0.0091	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Fluorene	ND		0.039	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Hexachlorobenzene	ND		0.079	0.0075	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Hexachlorobutadiene	ND		0.20	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Hexachlorocyclopentadiene	ND		0.79	0.41	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Hexachloroethane	ND		0.20	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1

Client Sample ID: B-3
Date Collected: 03/21/24 09:30
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-2
Matrix: Solid
Percent Solids: 81.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.039	0.038	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Isophorone	ND		0.20	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Naphthalene	ND		0.039	0.0071	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Nitrobenzene	ND		0.039	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
N-Nitrosodi-n-propylamine	ND		0.079	0.0077	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
N-Nitrosodiphenylamine	ND		0.20	0.023	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Pentachlorophenol	ND		0.79	0.098	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Phenanthrene	ND		0.039	0.0085	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Phenol	ND		0.20	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1
Pyrene	ND		0.039	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*31 - 143*	*03/25/24 13:48*	*03/26/24 13:00*	*1*
2-Fluorobiphenyl	*64*		*43 - 145*	*03/25/24 13:48*	*03/26/24 13:00*	*1*
2-Fluorophenol (Surr)	*66*		*31 - 166*	*03/25/24 13:48*	*03/26/24 13:00*	*1*
Nitrobenzene-d5	*54*		*37 - 147*	*03/25/24 13:48*	*03/26/24 13:00*	*1*
Phenol-d5 (Surr)	*70*		*30 - 153*	*03/25/24 13:48*	*03/26/24 13:00*	*1*
Terphenyl-d14	*70*		*42 - 157*	*03/25/24 13:48*	*03/26/24 13:00*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.8**		1.1	0.38	mg/Kg	☼	03/25/24 09:47	03/27/24 17:16	1
Barium	**84**		1.1	0.13	mg/Kg	☼	03/25/24 09:47	03/28/24 14:22	1
Cadmium	ND		0.23	0.041	mg/Kg	☼	03/25/24 09:47	03/27/24 17:16	1
Chromium	**25**		1.1	0.56	mg/Kg	☼	03/25/24 09:47	03/27/24 17:16	1
Lead	**19**	**^5-**	0.56	0.26	mg/Kg	☼	03/25/24 09:47	03/27/24 17:16	1
Selenium	**0.83**	**J ^1+**	1.1	0.66	mg/Kg	☼	03/25/24 09:47	03/27/24 17:16	1
Silver	**0.23**	**J**	0.56	0.15	mg/Kg	☼	03/25/24 09:47	03/27/24 17:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.020	0.010	mg/Kg	☼	03/27/24 16:30	03/28/24 10:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**6.7**		0.2	0.2	SU			03/27/24 14:11	1

Client Sample ID: B-4

Date Collected: 03/21/24 09:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-3

Matrix: Solid
Percent Solids: 86.5

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0016	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
1,1,2,2-Tetrachloroethane	ND		0.0016	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
1,1,2-Trichloroethane	ND		0.0016	0.00069	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
1,1-Dichloroethane	ND		0.0016	0.00055	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
1,1-Dichloroethene	ND		0.0016	0.00055	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
1,2-Dichloroethane	ND		0.0040	0.0013	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
1,2-Dichloropropane	ND		0.0016	0.00042	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
1,3-Dichloropropene, Total	ND		0.0016	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
2-Hexanone	ND		0.0040	0.0013	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Acetone	ND		0.016	0.0070	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Benzene	**0.00058**	**J**	0.0016	0.00041	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Bromodichloromethane	ND		0.0016	0.00033	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Bromoform	ND		0.0016	0.00047	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Bromomethane	ND		0.0040	0.0015	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Carbon disulfide	ND		0.0040	0.00084	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Carbon tetrachloride	ND		0.0016	0.00047	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Chlorobenzene	ND		0.0016	0.00059	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Chloroethane	ND		0.0040	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Chloroform	ND		0.0016	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Chloromethane	ND		0.0040	0.0016	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
cis-1,2-Dichloroethene	ND		0.0016	0.00045	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
cis-1,3-Dichloropropene	ND		0.0016	0.00049	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Dibromochloromethane	ND		0.0016	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Ethylbenzene	ND		0.0016	0.00077	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Methyl Ethyl Ketone	ND		0.0040	0.0018	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
methyl isobutyl ketone	ND		0.0040	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Methyl tert-butyl ether	ND		0.0016	0.00047	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Methylene Chloride	ND		0.0040	0.0016	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Styrene	ND		0.0016	0.00049	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Tetrachloroethene	ND		0.0016	0.00055	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Toluene	**0.0019**		0.0016	0.00041	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
trans-1,2-Dichloroethene	ND		0.0016	0.00071	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
trans-1,3-Dichloropropene	ND		0.0016	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Trichloroethene	ND		0.0016	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Vinyl chloride	ND		0.0016	0.00071	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1
Xylenes, Total	ND		0.0032	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 134*	*03/22/24 18:13*	*03/27/24 13:06*	*1*
4-Bromofluorobenzene (Surr)	*113*		*75 - 131*	*03/22/24 18:13*	*03/27/24 13:06*	*1*
Dibromofluoromethane	*109*		*75 - 126*	*03/22/24 18:13*	*03/27/24 13:06*	*1*
Toluene-d8 (Surr)	*110*		*75 - 124*	*03/22/24 18:13*	*03/27/24 13:06*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.19	0.026	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
1,2-Dichlorobenzene	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
1,3-Dichlorobenzene	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
1,4-Dichlorobenzene	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2,2'-oxybis[1-chloropropane]	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1

Client Sample ID: B-4
Date Collected: 03/21/24 09:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-3
Matrix: Solid
Percent Solids: 86.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.37	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2,4,6-Trichlorophenol	ND		0.37	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2,4-Dichlorophenol	ND		0.37	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2,4-Dimethylphenol	ND		0.37	0.083	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2,4-Dinitrophenol	ND		0.75	0.21	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2,4-Dinitrotoluene	ND		0.19	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2,6-Dinitrotoluene	ND		0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2-Chloronaphthalene	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2-Chlorophenol	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2-Methylnaphthalene	ND		0.075	0.0074	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2-Methylphenol	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2-Nitroaniline	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
2-Nitrophenol	ND		0.37	0.025	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
3 & 4 Methylphenol	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
3,3'-Dichlorobenzidine	ND		0.19	0.030	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
3-Nitroaniline	ND		0.37	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
4,6-Dinitro-2-methylphenol	ND		0.75	0.21	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
4-Bromophenyl phenyl ether	ND		0.19	0.025	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
4-Chloro-3-methylphenol	ND		0.37	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
4-Chloroaniline	ND		0.75	0.39	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
4-Chlorophenyl phenyl ether	ND		0.19	0.048	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
4-Nitroaniline	ND		0.37	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
4-Nitrophenol	ND		0.75	0.14	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Acenaphthene	ND		0.037	0.0075	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Acenaphthylene	ND		0.037	0.0063	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Anthracene	ND		0.037	0.0076	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Benzo[a]anthracene	ND		0.037	0.0078	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Benzo[a]pyrene	ND		0.037	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Benzo[b]fluoranthene	ND		0.037	0.035	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Benzo[g,h,i]perylene	ND		0.037	0.0080	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Benzo[k]fluoranthene	ND		0.037	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Bis(2-chloroethoxy)methane	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Bis(2-chloroethyl)ether	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Bis(2-ethylhexyl) phthalate	ND		0.19	0.14	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Butyl benzyl phthalate	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Carbazole	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Chrysene	ND		0.037	0.0097	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Dibenz(a,h)anthracene	ND		0.037	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Dibenzofuran	ND		0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Diethyl phthalate	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Dimethyl phthalate	ND		0.19	0.0080	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Di-n-butyl phthalate	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Di-n-octyl phthalate	ND		0.37	0.26	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Fluoranthene	ND		0.037	0.0086	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Fluorene	ND		0.037	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Hexachlorobenzene	ND		0.075	0.0071	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Hexachlorobutadiene	ND		0.19	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Hexachlorocyclopentadiene	ND		0.75	0.39	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Hexachloroethane	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1

Client Sample ID: B-4
Date Collected: 03/21/24 09:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-3
Matrix: Solid
Percent Solids: 86.5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.037	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Isophorone	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Naphthalene	ND		0.037	0.0067	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Nitrobenzene	ND		0.037	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
N-Nitrosodi-n-propylamine	ND		0.075	0.0073	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
N-Nitrosodiphenylamine	ND		0.19	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Pentachlorophenol	ND		0.75	0.092	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Phenanthrene	ND		0.037	0.0080	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Phenol	ND		0.19	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1
Pyrene	ND		0.037	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*31 - 143*	*03/25/24 13:48*	*03/26/24 15:23*	*1*
2-Fluorobiphenyl	*69*		*43 - 145*	*03/25/24 13:48*	*03/26/24 15:23*	*1*
2-Fluorophenol (Surr)	*72*		*31 - 166*	*03/25/24 13:48*	*03/26/24 15:23*	*1*
Nitrobenzene-d5	*69*		*37 - 147*	*03/25/24 13:48*	*03/26/24 15:23*	*1*
Phenol-d5 (Surr)	*76*		*30 - 153*	*03/25/24 13:48*	*03/26/24 15:23*	*1*
Terphenyl-d14	*74*		*42 - 157*	*03/25/24 13:48*	*03/26/24 15:23*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.8**		0.99	0.34	mg/Kg	☼	03/25/24 09:47	03/27/24 17:20	1
Barium	**45**		0.99	0.11	mg/Kg	☼	03/25/24 09:47	03/28/24 14:26	1
Cadmium	ND		0.20	0.036	mg/Kg	☼	03/25/24 09:47	03/27/24 17:20	1
Chromium	**16**		0.99	0.49	mg/Kg	☼	03/25/24 09:47	03/27/24 17:20	1
Lead	**13**	**^5-**	0.49	0.23	mg/Kg	☼	03/25/24 09:47	03/27/24 17:20	1
Selenium	ND	^1+	0.99	0.58	mg/Kg	☼	03/25/24 09:47	03/27/24 17:20	1
Silver	**0.14**	**J**	0.49	0.13	mg/Kg	☼	03/25/24 09:47	03/27/24 17:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.018	0.0095	mg/Kg	☼	03/27/24 16:30	03/28/24 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**7.6**		0.2	0.2	SU			03/27/24 14:13	1

Client Sample ID: B-5
Date Collected: 03/21/24 10:15
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-4
Matrix: Solid
Percent Solids: 78.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0018	0.00061	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
1,1,2,2-Tetrachloroethane	ND		0.0018	0.00058	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
1,1,2-Trichloroethane	ND		0.0018	0.00078	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
1,1-Dichloroethane	ND		0.0018	0.00063	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
1,1-Dichloroethene	ND		0.0018	0.00063	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
1,2-Dichloroethane	ND		0.0046	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
1,2-Dichloropropane	ND		0.0018	0.00047	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
1,3-Dichloropropene, Total	ND		0.0018	0.00064	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
2-Hexanone	ND		0.0046	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Acetone	ND		0.018	0.0080	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Benzene	**0.010**		0.0018	0.00047	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Bromodichloromethane	ND		0.0018	0.00037	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Bromoform	ND		0.0018	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Bromomethane	ND		0.0046	0.0017	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Carbon disulfide	ND		0.0046	0.00095	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Carbon tetrachloride	ND		0.0018	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Chlorobenzene	ND		0.0018	0.00067	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Chloroethane	ND		0.0046	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Chloroform	ND		0.0018	0.00063	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Chloromethane	ND		0.0046	0.0018	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
cis-1,2-Dichloroethene	ND		0.0018	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
cis-1,3-Dichloropropene	ND		0.0018	0.00055	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Dibromochloromethane	ND		0.0018	0.00060	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Ethylbenzene	ND		0.0018	0.00087	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Methyl Ethyl Ketone	ND		0.0046	0.0020	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
methyl isobutyl ketone	ND		0.0046	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Methyl tert-butyl ether	ND		0.0018	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Methylene Chloride	ND		0.0046	0.0018	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Styrene	ND		0.0018	0.00055	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Tetrachloroethene	ND		0.0018	0.00062	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Toluene	**0.0010**	**J**	0.0018	0.00046	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
trans-1,2-Dichloroethene	ND		0.0018	0.00081	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
trans-1,3-Dichloropropene	ND		0.0018	0.00064	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Trichloroethene	ND		0.0018	0.00062	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Vinyl chloride	ND		0.0018	0.00081	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1
Xylenes, Total	**0.015**		0.0037	0.00058	mg/Kg	☼	03/22/24 18:13	03/27/24 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 134*	*03/22/24 18:13*	*03/27/24 13:31*	*1*
4-Bromofluorobenzene (Surr)	*119*		*75 - 131*	*03/22/24 18:13*	*03/27/24 13:31*	*1*
Dibromofluoromethane	*108*		*75 - 126*	*03/22/24 18:13*	*03/27/24 13:31*	*1*
Toluene-d8 (Surr)	*117*		*75 - 124*	*03/22/24 18:13*	*03/27/24 13:31*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.21	0.030	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
1,2-Dichlorobenzene	ND		0.21	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
1,3-Dichlorobenzene	ND		0.21	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
1,4-Dichlorobenzene	ND		0.21	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2,2'-oxybis[1-chloropropane]	ND		0.21	0.030	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1

Client Sample ID: B-5
Date Collected: 03/21/24 10:15
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-4
Matrix: Solid
Percent Solids: 78.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.41	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2,4,6-Trichlorophenol	ND		0.41	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2,4-Dichlorophenol	ND		0.41	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2,4-Dimethylphenol	ND		0.41	0.093	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2,4-Dinitrophenol	ND		0.84	0.24	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2,4-Dinitrotoluene	ND		0.21	0.024	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2,6-Dinitrotoluene	ND		0.21	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2-Chloronaphthalene	ND		0.21	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2-Chlorophenol	ND		0.21	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2-Methylnaphthalene	**0.020**	**J**	0.084	0.0083	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2-Methylphenol	ND		0.21	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2-Nitroaniline	ND		0.21	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
2-Nitrophenol	ND		0.41	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
3 & 4 Methylphenol	ND		0.21	0.030	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
3,3'-Dichlorobenzidine	ND		0.21	0.034	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
3-Nitroaniline	ND		0.41	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
4,6-Dinitro-2-methylphenol	ND		0.84	0.23	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
4-Bromophenyl phenyl ether	ND		0.21	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
4-Chloro-3-methylphenol	ND		0.41	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
4-Chloroaniline	ND		0.84	0.44	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
4-Chlorophenyl phenyl ether	ND		0.21	0.054	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
4-Nitroaniline	ND		0.41	0.031	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
4-Nitrophenol	ND		0.84	0.15	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Acenaphthene	ND		0.041	0.0084	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Acenaphthylene	ND		0.041	0.0070	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Anthracene	ND		0.041	0.0085	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Benzo[a]anthracene	ND		0.041	0.0088	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Benzo[a]pyrene	ND		0.041	0.040	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Benzo[b]fluoranthene	ND		0.041	0.040	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Benzo[g,h,i]perylene	ND		0.041	0.0090	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Benzo[k]fluoranthene	ND		0.041	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Bis(2-chloroethoxy)methane	ND		0.21	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Bis(2-chloroethyl)ether	ND		0.21	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Bis(2-ethylhexyl) phthalate	ND		0.21	0.16	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Butyl benzyl phthalate	ND		0.21	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Carbazole	ND		0.21	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Chrysene	ND		0.041	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Dibenz(a,h)anthracene	ND		0.041	0.041	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Dibenzofuran	ND		0.21	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Diethyl phthalate	ND		0.21	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Dimethyl phthalate	ND		0.21	0.0090	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Di-n-butyl phthalate	ND		0.21	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Di-n-octyl phthalate	ND		0.41	0.29	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Fluoranthene	**0.032**	**J**	0.041	0.0096	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Fluorene	ND		0.041	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Hexachlorobenzene	ND		0.084	0.0080	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Hexachlorobutadiene	ND		0.21	0.023	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Hexachlorocyclopentadiene	ND		0.84	0.44	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Hexachloroethane	ND		0.21	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-5
Date Collected: 03/21/24 10:15
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-4
Matrix: Solid
Percent Solids: 78.1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.041	0.040	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Isophorone	ND		0.21	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Naphthalene	**0.033**	**J**	0.041	0.0075	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Nitrobenzene	ND		0.041	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
N-Nitrosodi-n-propylamine	ND		0.084	0.0082	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
N-Nitrosodiphenylamine	ND		0.21	0.025	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Pentachlorophenol	ND		0.84	0.10	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Phenanthrene	**0.016**	**J**	0.041	0.0090	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Phenol	ND		0.21	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1
Pyrene	**0.021**	**J**	0.041	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*31 - 143*	*03/25/24 13:48*	*03/26/24 16:10*	*1*
2-Fluorobiphenyl	*76*		*43 - 145*	*03/25/24 13:48*	*03/26/24 16:10*	*1*
2-Fluorophenol (Surr)	*70*		*31 - 166*	*03/25/24 13:48*	*03/26/24 16:10*	*1*
Nitrobenzene-d5	*64*		*37 - 147*	*03/25/24 13:48*	*03/26/24 16:10*	*1*
Phenol-d5 (Surr)	*77*		*30 - 153*	*03/25/24 13:48*	*03/26/24 16:10*	*1*
Terphenyl-d14	*78*		*42 - 157*	*03/25/24 13:48*	*03/26/24 16:10*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.1**		1.2	0.40	mg/Kg	☼	03/25/24 09:47	03/27/24 17:24	1
Barium	**110**		1.2	0.13	mg/Kg	☼	03/25/24 09:47	03/28/24 14:29	1
Cadmium	**0.15**	**J**	0.23	0.042	mg/Kg	☼	03/25/24 09:47	03/27/24 17:24	1
Chromium	**18**		1.2	0.58	mg/Kg	☼	03/25/24 09:47	03/27/24 17:24	1
Lead	**23**	**^5-**	0.59	0.27	mg/Kg	☼	03/25/24 09:47	03/27/24 17:24	1
Selenium	**1.3**	**^1+**	1.2	0.69	mg/Kg	☼	03/25/24 09:47	03/27/24 17:24	1
Silver	ND		0.59	0.15	mg/Kg	☼	03/25/24 09:47	03/27/24 17:24	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.021	0.011	mg/Kg	☼	03/27/24 16:30	03/28/24 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**7.1**		0.2	0.2	SU			03/27/24 14:16	1

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-6
Date Collected: 03/21/24 10:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-5
Matrix: Solid
Percent Solids: 83.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0018	0.00059	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
1,1,2,2-Tetrachloroethane	ND		0.0018	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
1,1,2-Trichloroethane	ND		0.0018	0.00075	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
1,1-Dichloroethane	ND		0.0018	0.00060	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
1,1-Dichloroethene	ND		0.0018	0.00061	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
1,2-Dichloroethane	ND		0.0044	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
1,2-Dichloropropane	ND		0.0018	0.00045	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
1,3-Dichloropropene, Total	ND		0.0018	0.00062	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
2-Hexanone	ND		0.0044	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Acetone	ND		0.018	0.0077	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Benzene	ND		0.0018	0.00045	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Bromodichloromethane	ND		0.0018	0.00036	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Bromoform	ND		0.0018	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Bromomethane	ND		0.0044	0.0017	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Carbon disulfide	ND		0.0044	0.00091	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Carbon tetrachloride	ND		0.0018	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Chlorobenzene	ND		0.0018	0.00065	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Chloroethane	ND		0.0044	0.0013	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Chloroform	ND		0.0018	0.00061	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Chloromethane	ND		0.0044	0.0018	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
cis-1,2-Dichloroethene	ND		0.0018	0.00049	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
cis-1,3-Dichloropropene	ND		0.0018	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Dibromochloromethane	ND		0.0018	0.00058	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Ethylbenzene	ND		0.0018	0.00084	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Methyl Ethyl Ketone	ND		0.0044	0.0020	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
methyl isobutyl ketone	ND		0.0044	0.0013	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Methyl tert-butyl ether	ND		0.0018	0.00052	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Methylene Chloride	ND		0.0044	0.0017	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Styrene	ND		0.0018	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Tetrachloroethene	ND		0.0018	0.00060	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Toluene	ND		0.0018	0.00044	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
trans-1,2-Dichloroethene	ND		0.0018	0.00078	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
trans-1,3-Dichloropropene	ND		0.0018	0.00062	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Trichloroethene	ND		0.0018	0.00059	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Vinyl chloride	ND		0.0018	0.00078	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1
Xylenes, Total	ND		0.0035	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 134*	*03/22/24 18:13*	*03/27/24 13:55*	*1*
4-Bromofluorobenzene (Surr)	*108*		*75 - 131*	*03/22/24 18:13*	*03/27/24 13:55*	*1*
Dibromofluoromethane	*110*		*75 - 126*	*03/22/24 18:13*	*03/27/24 13:55*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*	*03/22/24 18:13*	*03/27/24 13:55*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.20	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
1,2-Dichlorobenzene	ND		0.20	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
1,3-Dichlorobenzene	ND		0.20	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
1,4-Dichlorobenzene	ND		0.20	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2,2'-oxybis[1-chloropropane]	ND		0.20	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1

Client Sample ID: B-6
Date Collected: 03/21/24 10:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-5
Matrix: Solid
Percent Solids: 83.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.39	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2,4,6-Trichlorophenol	ND		0.39	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2,4-Dichlorophenol	ND		0.39	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2,4-Dimethylphenol	ND		0.39	0.088	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2,4-Dinitrophenol	ND		0.80	0.23	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2,4-Dinitrotoluene	ND		0.20	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2,6-Dinitrotoluene	ND		0.20	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2-Chloronaphthalene	ND		0.20	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2-Chlorophenol	ND		0.20	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2-Methylnaphthalene	ND		0.080	0.0079	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2-Methylphenol	ND		0.20	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2-Nitroaniline	ND		0.20	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
2-Nitrophenol	ND		0.39	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
3 & 4 Methylphenol	ND		0.20	0.029	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
3,3'-Dichlorobenzidine	ND		0.20	0.032	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
3-Nitroaniline	ND		0.39	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
4,6-Dinitro-2-methylphenol	ND		0.80	0.22	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
4-Bromophenyl phenyl ether	ND		0.20	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
4-Chloro-3-methylphenol	ND		0.39	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
4-Chloroaniline	ND		0.80	0.41	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
4-Chlorophenyl phenyl ether	ND		0.20	0.052	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
4-Nitroaniline	ND		0.39	0.029	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
4-Nitrophenol	ND		0.80	0.15	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Acenaphthene	ND		0.039	0.0080	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Acenaphthylene	ND		0.039	0.0067	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Anthracene	ND		0.039	0.0081	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Benzo[a]anthracene	**0.0099**	**J**	0.039	0.0084	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Benzo[a]pyrene	ND		0.039	0.038	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Benzo[b]fluoranthene	ND		0.039	0.038	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Benzo[g,h,i]perylene	ND		0.039	0.0085	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Benzo[k]fluoranthene	ND		0.039	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Bis(2-chloroethoxy)methane	ND		0.20	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Bis(2-chloroethyl)ether	ND		0.20	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Bis(2-ethylhexyl) phthalate	ND		0.20	0.15	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Butyl benzyl phthalate	ND		0.20	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Carbazole	ND		0.20	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Chrysene	**0.015**	**J**	0.039	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Dibenz(a,h)anthracene	ND		0.039	0.039	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Dibenzofuran	ND		0.20	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Diethyl phthalate	ND		0.20	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Dimethyl phthalate	ND		0.20	0.0086	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Di-n-butyl phthalate	ND		0.20	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Di-n-octyl phthalate	ND		0.39	0.28	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Fluoranthene	**0.013**	**J**	0.039	0.0092	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Fluorene	ND		0.039	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Hexachlorobenzene	ND		0.080	0.0076	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Hexachlorobutadiene	ND		0.20	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Hexachlorocyclopentadiene	ND		0.80	0.42	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Hexachloroethane	ND		0.20	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1

Client Sample ID: B-6
Date Collected: 03/21/24 10:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-5
Matrix: Solid
Percent Solids: 83.4

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.039	0.038	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Isophorone	ND		0.20	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Naphthalene	ND		0.039	0.0071	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Nitrobenzene	ND		0.039	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
N-Nitrosodi-n-propylamine	ND		0.080	0.0078	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
N-Nitrosodiphenylamine	ND		0.20	0.023	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Pentachlorophenol	ND		0.80	0.099	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Phenanthrene	ND		0.039	0.0086	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Phenol	ND		0.20	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1
Pyrene	ND		0.039	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*31 - 143*	*03/25/24 13:48*	*03/26/24 15:47*	*1*
2-Fluorobiphenyl	*59*		*43 - 145*	*03/25/24 13:48*	*03/26/24 15:47*	*1*
2-Fluorophenol (Surr)	*55*		*31 - 166*	*03/25/24 13:48*	*03/26/24 15:47*	*1*
Nitrobenzene-d5	*55*		*37 - 147*	*03/25/24 13:48*	*03/26/24 15:47*	*1*
Phenol-d5 (Surr)	*60*		*30 - 153*	*03/25/24 13:48*	*03/26/24 15:47*	*1*
Terphenyl-d14	*58*		*42 - 157*	*03/25/24 13:48*	*03/26/24 15:47*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.8**		1.1	0.36	mg/Kg	☼	03/25/24 09:47	03/27/24 17:28	1
Barium	**130**		1.1	0.12	mg/Kg	☼	03/25/24 09:47	03/28/24 14:41	1
Cadmium	**0.11**	**J**	0.21	0.038	mg/Kg	☼	03/25/24 09:47	03/27/24 17:28	1
Chromium	**17**		1.1	0.53	mg/Kg	☼	03/25/24 09:47	03/27/24 17:28	1
Lead	**22**	**^5-**	0.53	0.25	mg/Kg	☼	03/25/24 09:47	03/27/24 17:28	1
Selenium	**1.5**	**^1+**	1.1	0.63	mg/Kg	☼	03/25/24 09:47	03/27/24 17:28	1
Silver	ND		0.53	0.14	mg/Kg	☼	03/25/24 09:47	03/27/24 17:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.019	0.010	mg/Kg	☼	03/27/24 16:30	03/28/24 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**7.0**		0.2	0.2	SU			03/27/24 14:18	1

Client Sample ID: B-6 (13-15')
Date Collected: 03/21/24 10:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-6
Matrix: Solid
Percent Solids: 86.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0018	0.00059	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
1,1,2,2-Tetrachloroethane	ND		0.0018	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
1,1,2-Trichloroethane	ND		0.0018	0.00075	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
1,1-Dichloroethane	ND		0.0018	0.00060	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
1,1-Dichloroethene	ND		0.0018	0.00060	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
1,2-Dichloroethane	ND		0.0044	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
1,2-Dichloropropane	ND		0.0018	0.00045	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
1,3-Dichloropropene, Total	ND		0.0018	0.00061	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
2-Hexanone	ND		0.0044	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Acetone	ND		0.018	0.0076	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Benzene	**0.0026**		0.0018	0.00045	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Bromodichloromethane	ND		0.0018	0.00036	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Bromoform	ND		0.0018	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Bromomethane	ND		0.0044	0.0017	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Carbon disulfide	ND		0.0044	0.00091	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Carbon tetrachloride	ND		0.0018	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Chlorobenzene	ND		0.0018	0.00065	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Chloroethane	ND		0.0044	0.0013	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Chloroform	ND		0.0018	0.00061	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Chloromethane	ND		0.0044	0.0018	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
cis-1,2-Dichloroethene	ND		0.0018	0.00049	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
cis-1,3-Dichloropropene	ND		0.0018	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Dibromochloromethane	ND		0.0018	0.00057	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Ethylbenzene	ND		0.0018	0.00084	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Methyl Ethyl Ketone	ND		0.0044	0.0019	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
methyl isobutyl ketone	ND		0.0044	0.0013	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Methyl tert-butyl ether	ND		0.0018	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Methylene Chloride	ND		0.0044	0.0017	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Styrene	ND		0.0018	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Tetrachloroethene	ND		0.0018	0.00060	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Toluene	ND		0.0018	0.00044	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
trans-1,2-Dichloroethene	ND		0.0018	0.00078	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
trans-1,3-Dichloropropene	ND		0.0018	0.00061	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Trichloroethene	ND		0.0018	0.00059	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Vinyl chloride	ND		0.0018	0.00077	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1
Xylenes, Total	**0.0012**	**J**	0.0035	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 134*	*03/22/24 18:13*	*03/27/24 14:19*	*1*
4-Bromofluorobenzene (Surr)	*116*		*75 - 131*	*03/22/24 18:13*	*03/27/24 14:19*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*03/22/24 18:13*	*03/27/24 14:19*	*1*
Toluene-d8 (Surr)	*108*		*75 - 124*	*03/22/24 18:13*	*03/27/24 14:19*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
1,2-Dichlorobenzene	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
1,3-Dichlorobenzene	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
1,4-Dichlorobenzene	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2,2'-oxybis[1-chloropropane]	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-6 (13-15')
Date Collected: 03/21/24 10:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-6
Matrix: Solid
Percent Solids: 86.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.37	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2,4,6-Trichlorophenol	ND		0.37	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2,4-Dichlorophenol	ND		0.37	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2,4-Dimethylphenol	ND		0.37	0.084	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2,4-Dinitrophenol	ND		0.76	0.22	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2,4-Dinitrotoluene	ND		0.19	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2,6-Dinitrotoluene	ND		0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2-Chloronaphthalene	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2-Chlorophenol	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2-Methylnaphthalene	ND		0.076	0.0076	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2-Methylphenol	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2-Nitroaniline	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
2-Nitrophenol	ND		0.37	0.026	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
3 & 4 Methylphenol	ND		0.19	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
3,3'-Dichlorobenzidine	ND		0.19	0.031	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
3-Nitroaniline	ND		0.37	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
4,6-Dinitro-2-methylphenol	ND		0.76	0.21	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
4-Bromophenyl phenyl ether	ND		0.19	0.026	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
4-Chloro-3-methylphenol	ND		0.37	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
4-Chloroaniline	ND		0.76	0.39	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
4-Chlorophenyl phenyl ether	ND		0.19	0.049	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
4-Nitroaniline	ND		0.37	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
4-Nitrophenol	ND		0.76	0.14	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Acenaphthene	ND		0.037	0.0077	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Acenaphthylene	ND		0.037	0.0064	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Anthracene	ND		0.037	0.0077	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Benzo[a]anthracene	ND		0.037	0.0080	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Benzo[a]pyrene	ND		0.037	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Benzo[b]fluoranthene	ND		0.037	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Benzo[g,h,i]perylene	ND		0.037	0.0082	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Benzo[k]fluoranthene	ND		0.037	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Bis(2-chloroethoxy)methane	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Bis(2-chloroethyl)ether	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Bis(2-ethylhexyl) phthalate	ND		0.19	0.15	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Butyl benzyl phthalate	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Carbazole	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Chrysene	ND		0.037	0.0099	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Dibenz(a,h)anthracene	ND		0.037	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Dibenzofuran	ND		0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Diethyl phthalate	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Dimethyl phthalate	ND		0.19	0.0082	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Di-n-butyl phthalate	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Di-n-octyl phthalate	ND		0.37	0.26	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Fluoranthene	ND		0.037	0.0087	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Fluorene	ND		0.037	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Hexachlorobenzene	ND		0.076	0.0072	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Hexachlorobutadiene	ND		0.19	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Hexachlorocyclopentadiene	ND		0.76	0.40	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Hexachloroethane	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1

Client Sample ID: B-6 (13-15')
Date Collected: 03/21/24 10:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-6
Matrix: Solid
Percent Solids: 86.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.037	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Isophorone	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Naphthalene	ND		0.037	0.0068	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Nitrobenzene	ND		0.037	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
N-Nitrosodi-n-propylamine	ND		0.076	0.0074	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
N-Nitrosodiphenylamine	ND		0.19	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Pentachlorophenol	ND		0.76	0.094	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Phenanthrene	ND		0.037	0.0082	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Phenol	ND		0.19	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1
Pyrene	ND		0.037	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*31 - 143*	*03/25/24 13:48*	*03/26/24 13:24*	*1*
2-Fluorobiphenyl	*50*		*43 - 145*	*03/25/24 13:48*	*03/26/24 13:24*	*1*
2-Fluorophenol (Surr)	*55*		*31 - 166*	*03/25/24 13:48*	*03/26/24 13:24*	*1*
Nitrobenzene-d5	*52*		*37 - 147*	*03/25/24 13:48*	*03/26/24 13:24*	*1*
Phenol-d5 (Surr)	*60*		*30 - 153*	*03/25/24 13:48*	*03/26/24 13:24*	*1*
Terphenyl-d14	*75*		*42 - 157*	*03/25/24 13:48*	*03/26/24 13:24*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**12**		1.1	0.38	mg/Kg	☼	03/25/24 09:47	03/27/24 17:32	1
Barium	**44**		1.1	0.13	mg/Kg	☼	03/25/24 09:47	03/28/24 14:44	1
Cadmium	**0.049**	**J**	0.22	0.040	mg/Kg	☼	03/25/24 09:47	03/27/24 17:32	1
Chromium	**12**		1.1	0.55	mg/Kg	☼	03/25/24 09:47	03/27/24 17:32	1
Lead	**15**	**^5-**	0.56	0.26	mg/Kg	☼	03/25/24 09:47	03/27/24 17:32	1
Selenium	ND	^1+	1.1	0.65	mg/Kg	☼	03/25/24 09:47	03/27/24 17:32	1
Silver	ND		0.56	0.14	mg/Kg	☼	03/25/24 09:47	03/27/24 17:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**	**J**	0.019	0.0098	mg/Kg	☼	03/27/24 16:30	03/28/24 10:46	1

Client Sample ID: B-3 (13-15')
Date Collected: 03/21/24 09:30
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-7
Matrix: Solid
Percent Solids: 83.6

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0019	0.00064	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
1,1,2,2-Tetrachloroethane	ND		0.0019	0.00061	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
1,1,2-Trichloroethane	ND		0.0019	0.00082	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
1,1-Dichloroethane	ND		0.0019	0.00065	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
1,1-Dichloroethene	ND		0.0019	0.00066	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
1,2-Dichloroethane	ND		0.0048	0.0015	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
1,2-Dichloropropane	ND		0.0019	0.00049	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
1,3-Dichloropropene, Total	ND		0.0019	0.00067	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
2-Hexanone	ND		0.0048	0.0015	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Acetone	ND		0.019	0.0083	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Benzene	ND		0.0019	0.00049	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Bromodichloromethane	ND		0.0019	0.00039	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Bromoform	ND		0.0019	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Bromomethane	ND		0.0048	0.0018	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Carbon disulfide	ND		0.0048	0.00099	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Carbon tetrachloride	ND		0.0019	0.00055	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Chlorobenzene	ND		0.0019	0.00070	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Chloroethane	ND		0.0048	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Chloroform	ND		0.0019	0.00066	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Chloromethane	ND		0.0048	0.0019	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
cis-1,2-Dichloroethene	ND		0.0019	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
cis-1,3-Dichloropropene	ND		0.0019	0.00057	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Dibromochloromethane	ND		0.0019	0.00062	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Ethylbenzene	ND		0.0019	0.00091	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Methyl Ethyl Ketone	ND		0.0048	0.0021	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
methyl isobutyl ketone	ND		0.0048	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Methyl tert-butyl ether	ND		0.0019	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Methylene Chloride	ND		0.0048	0.0019	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Styrene	ND		0.0019	0.00058	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Tetrachloroethene	ND		0.0019	0.00065	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Toluene	ND		0.0019	0.00048	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
trans-1,2-Dichloroethene	ND		0.0019	0.00084	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
trans-1,3-Dichloropropene	ND		0.0019	0.00067	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Trichloroethene	ND		0.0019	0.00064	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Vinyl chloride	ND		0.0019	0.00084	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1
Xylenes, Total	ND		0.0038	0.00061	mg/Kg	☼	03/22/24 18:13	03/27/24 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 134*	*03/22/24 18:13*	*03/27/24 14:43*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*03/22/24 18:13*	*03/27/24 14:43*	*1*
Dibromofluoromethane	*112*		*75 - 126*	*03/22/24 18:13*	*03/27/24 14:43*	*1*
Toluene-d8 (Surr)	*107*		*75 - 124*	*03/22/24 18:13*	*03/27/24 14:43*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
1,2-Dichlorobenzene	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
1,3-Dichlorobenzene	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
1,4-Dichlorobenzene	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2,2'-oxybis[1-chloropropane]	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1

Client Sample ID: B-3 (13-15')
Date Collected: 03/21/24 09:30
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-7
Matrix: Solid
Percent Solids: 83.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.38	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2,4,6-Trichlorophenol	ND		0.38	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2,4-Dichlorophenol	ND		0.38	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2,4-Dimethylphenol	ND		0.38	0.085	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2,4-Dinitrophenol	ND		0.77	0.22	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2,4-Dinitrotoluene	ND		0.19	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2,6-Dinitrotoluene	ND		0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2-Chloronaphthalene	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2-Chlorophenol	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2-Methylnaphthalene	ND		0.077	0.0076	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2-Methylphenol	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2-Nitroaniline	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
2-Nitrophenol	ND		0.38	0.026	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
3 & 4 Methylphenol	ND		0.19	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
3,3'-Dichlorobenzidine	ND		0.19	0.031	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
3-Nitroaniline	ND		0.38	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
4,6-Dinitro-2-methylphenol	ND		0.77	0.21	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
4-Bromophenyl phenyl ether	ND		0.19	0.026	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
4-Chloro-3-methylphenol	ND		0.38	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
4-Chloroaniline	ND		0.77	0.40	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
4-Chlorophenyl phenyl ether	ND		0.19	0.050	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
4-Nitroaniline	ND		0.38	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
4-Nitrophenol	ND		0.77	0.14	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Acenaphthene	ND		0.038	0.0077	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Acenaphthylene	ND		0.038	0.0065	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Anthracene	ND		0.038	0.0078	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Benzo[a]anthracene	ND		0.038	0.0081	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Benzo[a]pyrene	ND		0.038	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Benzo[b]fluoranthene	ND		0.038	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Benzo[g,h,i]perylene	ND		0.038	0.0082	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Benzo[k]fluoranthene	ND		0.038	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Bis(2-chloroethoxy)methane	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Bis(2-chloroethyl)ether	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Bis(2-ethylhexyl) phthalate	ND		0.19	0.15	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Butyl benzyl phthalate	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Carbazole	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Chrysene	ND		0.038	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Dibenz(a,h)anthracene	ND		0.038	0.038	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Dibenzofuran	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Diethyl phthalate	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Dimethyl phthalate	ND		0.19	0.0083	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Di-n-butyl phthalate	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Di-n-octyl phthalate	ND		0.38	0.27	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Fluoranthene	ND		0.038	0.0088	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Fluorene	ND		0.038	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Hexachlorobenzene	ND		0.077	0.0073	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Hexachlorobutadiene	ND		0.19	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Hexachlorocyclopentadiene	ND		0.77	0.40	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Hexachloroethane	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1

Client Sample ID: B-3 (13-15')
Date Collected: 03/21/24 09:30
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-7
Matrix: Solid
Percent Solids: 83.6

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.038	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Isophorone	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Naphthalene	ND		0.038	0.0069	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Nitrobenzene	ND		0.038	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
N-Nitrosodi-n-propylamine	ND		0.077	0.0075	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
N-Nitrosodiphenylamine	ND		0.19	0.023	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Pentachlorophenol	ND		0.77	0.095	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Phenanthrene	ND		0.038	0.0083	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Phenol	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1
Pyrene	ND		0.038	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*31 - 143*	*03/25/24 13:48*	*03/26/24 14:35*	*1*
2-Fluorobiphenyl	*61*		*43 - 145*	*03/25/24 13:48*	*03/26/24 14:35*	*1*
2-Fluorophenol (Surr)	*63*		*31 - 166*	*03/25/24 13:48*	*03/26/24 14:35*	*1*
Nitrobenzene-d5	*63*		*37 - 147*	*03/25/24 13:48*	*03/26/24 14:35*	*1*
Phenol-d5 (Surr)	*66*		*30 - 153*	*03/25/24 13:48*	*03/26/24 14:35*	*1*
Terphenyl-d14	*70*		*42 - 157*	*03/25/24 13:48*	*03/26/24 14:35*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.6**		1.1	0.39	mg/Kg	☼	03/25/24 09:47	03/27/24 17:44	1
Barium	**50**		1.1	0.13	mg/Kg	☼	03/25/24 09:47	03/28/24 14:47	1
Cadmium	ND		0.23	0.041	mg/Kg	☼	03/25/24 09:47	03/27/24 17:44	1
Chromium	**19**		1.1	0.57	mg/Kg	☼	03/25/24 09:47	03/27/24 17:44	1
Lead	**14**	**^5-**	0.57	0.27	mg/Kg	☼	03/25/24 09:47	03/27/24 17:44	1
Selenium	ND	^1+	1.1	0.68	mg/Kg	☼	03/25/24 09:47	03/27/24 17:44	1
Silver	ND		0.57	0.15	mg/Kg	☼	03/25/24 09:47	03/27/24 17:44	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.012**	**J**	0.017	0.0092	mg/Kg	☼	03/27/24 16:30	03/28/24 10:48	1

Client Sample ID: B-7
Date Collected: 03/21/24 11:30
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-8
Matrix: Solid
Percent Solids: 86.2

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.039	0.015	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
1,1,2,2-Tetrachloroethane	ND		0.039	0.016	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
1,1,2-Trichloroethane	ND	F1	0.039	0.014	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
1,1-Dichloroethane	ND		0.039	0.016	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
1,1-Dichloroethene	ND		0.039	0.015	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
1,2-Dichloroethane	ND		0.039	0.015	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
1,2-Dichloropropane	ND		0.039	0.017	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
1,3-Dichloropropene, Total	ND		0.039	0.016	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
2-Hexanone	**0.70**	**F1**	0.20	0.061	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Acetone	**0.17**	**J F2 F1**	0.39	0.068	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Benzene	**0.043**		0.0098	0.0057	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Bromodichloromethane	ND		0.039	0.015	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Bromoform	ND		0.039	0.019	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Bromomethane	ND		0.12	0.031	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Carbon disulfide	ND	F1	0.078	0.031	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Carbon tetrachloride	ND		0.039	0.015	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Chlorobenzene	ND		0.039	0.015	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Chloroethane	ND		0.20	0.020	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Chloroform	ND		0.078	0.015	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Chloromethane	ND		0.20	0.013	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
cis-1,2-Dichloroethene	ND		0.039	0.016	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
cis-1,3-Dichloropropene	ND		0.039	0.016	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Dibromochloromethane	ND		0.039	0.019	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Ethylbenzene	**7.6**	**F1**	0.0098	0.0072	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Methyl Ethyl Ketone	**2.0**	**F1**	0.20	0.083	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
methyl isobutyl ketone	ND		0.20	0.084	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Methyl tert-butyl ether	ND		0.039	0.015	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Methylene Chloride	ND		0.20	0.064	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Styrene	ND		0.039	0.015	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Tetrachloroethene	ND		0.039	0.015	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Toluene	**0.013**		0.0098	0.0058	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
trans-1,2-Dichloroethene	ND		0.039	0.014	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
trans-1,3-Dichloropropene	ND		0.039	0.014	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Trichloroethene	ND		0.020	0.0064	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Vinyl chloride	ND		0.039	0.010	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50
Xylenes, Total	**0.65**		0.020	0.0086	mg/Kg	☼	03/21/24 11:30	03/28/24 13:52	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 126*	*03/21/24 11:30*	*03/28/24 13:52*	*50*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*03/21/24 11:30*	*03/28/24 13:52*	*50*
Dibromofluoromethane	*113*		*75 - 120*	*03/21/24 11:30*	*03/28/24 13:52*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*03/21/24 11:30*	*03/28/24 13:52*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
1,2-Dichlorobenzene	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
1,3-Dichlorobenzene	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
1,4-Dichlorobenzene	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2,2'-oxybis[1-chloropropane]	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1

Client Sample ID: B-7
Date Collected: 03/21/24 11:30
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-8
Matrix: Solid
Percent Solids: 86.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.37	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2,4,6-Trichlorophenol	ND		0.37	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2,4-Dichlorophenol	ND		0.37	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2,4-Dimethylphenol	ND		0.37	0.083	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2,4-Dinitrophenol	ND		0.75	0.22	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2,4-Dinitrotoluene	ND		0.19	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2,6-Dinitrotoluene	ND		0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2-Chloronaphthalene	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2-Chlorophenol	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2-Methylnaphthalene	**1.1**		0.075	0.0075	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2-Methylphenol	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2-Nitroaniline	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
2-Nitrophenol	ND		0.37	0.025	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
3 & 4 Methylphenol	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
3,3'-Dichlorobenzidine	ND		0.19	0.030	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
3-Nitroaniline	ND		0.37	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
4,6-Dinitro-2-methylphenol	ND		0.75	0.21	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
4-Bromophenyl phenyl ether	ND		0.19	0.025	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
4-Chloro-3-methylphenol	ND		0.37	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
4-Chloroaniline	ND		0.75	0.39	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
4-Chlorophenyl phenyl ether	ND		0.19	0.049	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
4-Nitroaniline	ND		0.37	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
4-Nitrophenol	ND		0.75	0.14	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Acenaphthene	ND		0.037	0.0076	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Acenaphthylene	ND		0.037	0.0063	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Anthracene	ND		0.037	0.0076	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Benzo[a]anthracene	ND		0.037	0.0079	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Benzo[a]pyrene	ND		0.037	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Benzo[b]fluoranthene	ND		0.037	0.035	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Benzo[g,h,i]perylene	ND		0.037	0.0081	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Benzo[k]fluoranthene	ND		0.037	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Bis(2-chloroethoxy)methane	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Bis(2-chloroethyl)ether	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Bis(2-ethylhexyl) phthalate	ND		0.19	0.15	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Butyl benzyl phthalate	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Carbazole	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Chrysene	ND		0.037	0.0098	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Dibenz(a,h)anthracene	ND		0.037	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Dibenzofuran	ND		0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Diethyl phthalate	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Dimethyl phthalate	ND		0.19	0.0081	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Di-n-butyl phthalate	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Di-n-octyl phthalate	ND		0.37	0.26	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Fluoranthene	ND		0.037	0.0086	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Fluorene	ND		0.037	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Hexachlorobenzene	ND		0.075	0.0071	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Hexachlorobutadiene	ND		0.19	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Hexachlorocyclopentadiene	ND		0.75	0.39	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Hexachloroethane	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1

Client Sample ID: B-7
Date Collected: 03/21/24 11:30
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-8
Matrix: Solid
Percent Solids: 86.2

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.037	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Isophorone	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Naphthalene	**0.56**		0.037	0.0067	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Nitrobenzene	ND		0.037	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
N-Nitrosodi-n-propylamine	ND		0.075	0.0073	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
N-Nitrosodiphenylamine	ND		0.19	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Pentachlorophenol	ND		0.75	0.093	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Phenanthrene	**0.026**	**J**	0.037	0.0081	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Phenol	ND		0.19	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1
Pyrene	ND		0.037	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*31 - 143*	*03/25/24 13:48*	*03/26/24 14:12*	*1*
2-Fluorobiphenyl	*62*		*43 - 145*	*03/25/24 13:48*	*03/26/24 14:12*	*1*
2-Fluorophenol (Surr)	*60*		*31 - 166*	*03/25/24 13:48*	*03/26/24 14:12*	*1*
Nitrobenzene-d5	*60*		*37 - 147*	*03/25/24 13:48*	*03/26/24 14:12*	*1*
Phenol-d5 (Surr)	*66*		*30 - 153*	*03/25/24 13:48*	*03/26/24 14:12*	*1*
Terphenyl-d14	*75*		*42 - 157*	*03/25/24 13:48*	*03/26/24 14:12*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.4**		1.0	0.35	mg/Kg	☼	03/25/24 09:47	03/27/24 17:48	1
Barium	**23**		1.0	0.12	mg/Kg	☼	03/25/24 09:47	03/28/24 14:51	1
Cadmium	ND		0.21	0.037	mg/Kg	☼	03/25/24 09:47	03/27/24 17:48	1
Chromium	**11**		1.0	0.51	mg/Kg	☼	03/25/24 09:47	03/27/24 17:48	1
Lead	**12**	**^5-**	0.52	0.24	mg/Kg	☼	03/25/24 09:47	03/27/24 17:48	1
Selenium	ND	^1+	1.0	0.61	mg/Kg	☼	03/25/24 09:47	03/27/24 17:48	1
Silver	ND		0.52	0.13	mg/Kg	☼	03/25/24 09:47	03/27/24 17:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**		0.017	0.0091	mg/Kg	☼	03/27/24 16:30	03/28/24 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.1**		0.2	0.2	SU			03/27/24 14:20	1

Client Sample ID: B-8
Date Collected: 03/21/24 10:50
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-9
Matrix: Solid
Percent Solids: 87.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0016	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
1,1,2,2-Tetrachloroethane	ND		0.0016	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
1,1,2-Trichloroethane	ND		0.0016	0.00068	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
1,1-Dichloroethane	ND		0.0016	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
1,1-Dichloroethene	ND		0.0016	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
1,2-Dichloropropane	ND		0.0016	0.00041	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
1,3-Dichloropropene, Total	ND		0.0016	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
2-Hexanone	ND		0.0040	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Acetone	ND		0.016	0.0069	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Benzene	ND		0.0016	0.00040	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Bromodichloromethane	ND		0.0016	0.00032	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Bromoform	ND		0.0016	0.00046	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Bromomethane	ND		0.0040	0.0015	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Carbon disulfide	ND		0.0040	0.00082	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Carbon tetrachloride	ND		0.0016	0.00046	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Chlorobenzene	ND		0.0016	0.00058	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Chloroethane	ND		0.0040	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Chloroform	ND		0.0016	0.00055	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Chloromethane	ND		0.0040	0.0016	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
cis-1,2-Dichloroethene	ND		0.0016	0.00044	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
cis-1,3-Dichloropropene	ND		0.0016	0.00048	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Dibromochloromethane	ND		0.0016	0.00052	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Ethylbenzene	ND		0.0016	0.00076	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Methyl Ethyl Ketone	ND		0.0040	0.0018	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
methyl isobutyl ketone	ND		0.0040	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Methyl tert-butyl ether	ND		0.0016	0.00046	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Methylene Chloride	ND		0.0040	0.0016	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Styrene	ND		0.0016	0.00048	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Tetrachloroethene	ND		0.0016	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Toluene	ND		0.0016	0.00040	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
trans-1,2-Dichloroethene	ND		0.0016	0.00070	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
trans-1,3-Dichloropropene	ND		0.0016	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Trichloroethene	ND		0.0016	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Vinyl chloride	ND		0.0016	0.00070	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1
Xylenes, Total	ND		0.0032	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 134*	*03/22/24 18:13*	*03/27/24 15:07*	*1*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*	*03/22/24 18:13*	*03/27/24 15:07*	*1*
Dibromofluoromethane	*112*		*75 - 126*	*03/22/24 18:13*	*03/27/24 15:07*	*1*
Toluene-d8 (Surr)	*106*		*75 - 124*	*03/22/24 18:13*	*03/27/24 15:07*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
1,2-Dichlorobenzene	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
1,3-Dichlorobenzene	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
1,4-Dichlorobenzene	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2,2'-oxybis[1-chloropropane]	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1

Client Sample ID: B-8
Date Collected: 03/21/24 10:50
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-9
Matrix: Solid
Percent Solids: 87.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.37	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2,4,6-Trichlorophenol	ND		0.37	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2,4-Dichlorophenol	ND		0.37	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2,4-Dimethylphenol	ND		0.37	0.084	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2,4-Dinitrophenol	ND		0.76	0.22	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2,4-Dinitrotoluene	ND		0.19	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2,6-Dinitrotoluene	ND		0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2-Chloronaphthalene	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2-Chlorophenol	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2-Methylnaphthalene	ND		0.076	0.0075	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2-Methylphenol	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2-Nitroaniline	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
2-Nitrophenol	ND		0.37	0.025	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
3 & 4 Methylphenol	ND		0.19	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
3,3'-Dichlorobenzidine	ND		0.19	0.031	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
3-Nitroaniline	ND		0.37	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
4,6-Dinitro-2-methylphenol	ND		0.76	0.21	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
4-Bromophenyl phenyl ether	ND		0.19	0.026	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
4-Chloro-3-methylphenol	ND		0.37	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
4-Chloroaniline	ND		0.76	0.39	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
4-Chlorophenyl phenyl ether	ND		0.19	0.049	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
4-Nitroaniline	ND		0.37	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
4-Nitrophenol	ND		0.76	0.14	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Acenaphthene	ND		0.037	0.0076	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Acenaphthylene	ND		0.037	0.0064	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Anthracene	ND		0.037	0.0077	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Benzo[a]anthracene	ND		0.037	0.0080	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Benzo[a]pyrene	ND		0.037	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Benzo[b]fluoranthene	ND		0.037	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Benzo[g,h,i]perylene	ND		0.037	0.0081	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Benzo[k]fluoranthene	ND		0.037	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Bis(2-chloroethoxy)methane	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Bis(2-chloroethyl)ether	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Bis(2-ethylhexyl) phthalate	ND		0.19	0.15	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Butyl benzyl phthalate	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Carbazole	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Chrysene	ND		0.037	0.0099	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Dibenz(a,h)anthracene	ND		0.037	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Dibenzofuran	ND		0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Diethyl phthalate	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Dimethyl phthalate	ND		0.19	0.0082	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Di-n-butyl phthalate	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Di-n-octyl phthalate	ND		0.37	0.26	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Fluoranthene	ND		0.037	0.0087	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Fluorene	ND		0.037	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Hexachlorobenzene	ND		0.076	0.0072	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Hexachlorobutadiene	ND		0.19	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Hexachlorocyclopentadiene	ND		0.76	0.40	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Hexachloroethane	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1

Client Sample ID: B-8
Date Collected: 03/21/24 10:50
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-9
Matrix: Solid
Percent Solids: 87.9

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.037	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Isophorone	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Naphthalene	ND		0.037	0.0068	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Nitrobenzene	ND		0.037	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
N-Nitrosodi-n-propylamine	ND		0.076	0.0074	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
N-Nitrosodiphenylamine	ND		0.19	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Pentachlorophenol	ND		0.76	0.094	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Phenanthrene	ND		0.037	0.0082	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Phenol	ND		0.19	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1
Pyrene	ND		0.037	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*31 - 143*	*03/25/24 13:48*	*03/26/24 14:59*	*1*
2-Fluorobiphenyl	*57*		*43 - 145*	*03/25/24 13:48*	*03/26/24 14:59*	*1*
2-Fluorophenol (Surr)	*59*		*31 - 166*	*03/25/24 13:48*	*03/26/24 14:59*	*1*
Nitrobenzene-d5	*56*		*37 - 147*	*03/25/24 13:48*	*03/26/24 14:59*	*1*
Phenol-d5 (Surr)	*61*		*30 - 153*	*03/25/24 13:48*	*03/26/24 14:59*	*1*
Terphenyl-d14	*64*		*42 - 157*	*03/25/24 13:48*	*03/26/24 14:59*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.5**		0.99	0.34	mg/Kg	☼	03/25/24 09:47	03/27/24 17:52	1
Barium	**47**		0.99	0.11	mg/Kg	☼	03/25/24 09:47	03/28/24 14:55	1
Cadmium	**0.072**	**J**	0.20	0.036	mg/Kg	☼	03/25/24 09:47	03/27/24 17:52	1
Chromium	**15**		0.99	0.49	mg/Kg	☼	03/25/24 09:47	03/27/24 17:52	1
Lead	**13**	**^5-**	0.49	0.23	mg/Kg	☼	03/25/24 09:47	03/27/24 17:52	1
Selenium	ND	^1+	0.99	0.58	mg/Kg	☼	03/25/24 09:47	03/27/24 17:52	1
Silver	ND		0.49	0.13	mg/Kg	☼	03/25/24 09:47	03/27/24 17:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.018	0.0094	mg/Kg	☼	03/27/24 16:30	03/28/24 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.6**		0.2	0.2	SU			03/27/24 14:22	1

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-9
Date Collected: 03/21/24 11:50
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-10
Matrix: Solid
Percent Solids: 82.7

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.013	0.0074	mg/Kg	☼	03/21/24 11:50	03/28/24 13:29	50
Toluene	ND		0.013	0.0074	mg/Kg	☼	03/21/24 11:50	03/28/24 13:29	50
Ethylbenzene	ND		0.013	0.0092	mg/Kg	☼	03/21/24 11:50	03/28/24 13:29	50
Xylenes, Total	ND		0.025	0.011	mg/Kg	☼	03/21/24 11:50	03/28/24 13:29	50
Methyl tert-butyl ether	ND		0.050	0.020	mg/Kg	☼	03/21/24 11:50	03/28/24 13:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*75 - 126*	*03/21/24 11:50*	*03/28/24 13:29*	*50*
Toluene-d8 (Surr)	*101*		*75 - 120*	*03/21/24 11:50*	*03/28/24 13:29*	*50*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*	*03/21/24 11:50*	*03/28/24 13:29*	*50*
Dibromofluoromethane	*108*		*75 - 120*	*03/21/24 11:50*	*03/28/24 13:29*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.052**		0.038	0.0078	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Acenaphthylene	ND		0.038	0.0065	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Anthracene	**0.048**		0.038	0.0078	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Benzo[a]anthracene	**0.048**		0.038	0.0081	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Benzo[a]pyrene	ND		0.038	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Benzo[b]fluoranthene	ND		0.038	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Benzo[g,h,i]perylene	ND		0.038	0.0083	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Benzo[k]fluoranthene	ND		0.038	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Chrysene	**0.080**		0.038	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Dibenz(a,h)anthracene	ND		0.038	0.038	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Fluoranthene	ND		0.038	0.0089	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Fluorene	**0.034**	**J**	0.038	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Indeno[1,2,3-cd]pyrene	ND		0.038	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Naphthalene	ND		0.038	0.0069	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Phenanthrene	**0.041**		0.038	0.0083	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1
Pyrene	**0.076**		0.038	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*61*		*37 - 147*	*03/25/24 13:48*	*03/26/24 18:09*	*1*
2-Fluorobiphenyl (Surr)	*65*		*43 - 145*	*03/25/24 13:48*	*03/26/24 18:09*	*1*
Terphenyl-d14 (Surr)	*72*		*42 - 157*	*03/25/24 13:48*	*03/26/24 18:09*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**	**^5-**	0.57	0.26	mg/Kg	☼	03/25/24 09:47	03/27/24 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.7**		0.2	0.2	SU			03/27/24 14:24	1

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-9 (13-15')

Date Collected: 03/21/24 11:50
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-11

Matrix: Solid
Percent Solids: 84.8

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0015	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
1,1,2,2-Tetrachloroethane	ND		0.0015	0.00049	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
1,1,2-Trichloroethane	ND		0.0015	0.00066	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
1,1-Dichloroethane	ND		0.0015	0.00052	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
1,1-Dichloroethene	ND		0.0015	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
1,2-Dichloroethane	ND		0.0038	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
1,2-Dichloropropane	ND		0.0015	0.00039	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
1,3-Dichloropropene, Total	ND		0.0015	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
2-Hexanone	ND		0.0038	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Acetone	ND		0.015	0.0067	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Benzene	**0.022**		0.0015	0.00039	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Bromodichloromethane	ND		0.0015	0.00031	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Bromoform	ND		0.0015	0.00045	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Bromomethane	ND		0.0038	0.0014	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Carbon disulfide	ND		0.0038	0.00079	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Carbon tetrachloride	ND		0.0015	0.00044	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Chlorobenzene	ND		0.0015	0.00056	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Chloroethane	ND		0.0038	0.0011	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Chloroform	ND		0.0015	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Chloromethane	ND		0.0038	0.0015	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
cis-1,2-Dichloroethene	ND		0.0015	0.00043	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
cis-1,3-Dichloropropene	ND		0.0015	0.00046	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Dibromochloromethane	ND		0.0015	0.00050	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Ethylbenzene	**0.027**		0.0015	0.00073	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Methyl Ethyl Ketone	ND		0.0038	0.0017	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
methyl isobutyl ketone	ND		0.0038	0.0011	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Methyl tert-butyl ether	ND		0.0015	0.00045	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Methylene Chloride	ND		0.0038	0.0015	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Styrene	ND		0.0015	0.00046	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Tetrachloroethene	ND		0.0015	0.00052	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Toluene	**0.0011**	**J**	0.0015	0.00039	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
trans-1,2-Dichloroethene	ND		0.0015	0.00068	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
trans-1,3-Dichloropropene	ND		0.0015	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Trichloroethene	ND		0.0015	0.00052	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Vinyl chloride	ND		0.0015	0.00068	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1
Xylenes, Total	**0.0053**		0.0031	0.00049	mg/Kg	☼	03/22/24 18:13	03/27/24 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 134*	*03/22/24 18:13*	*03/27/24 15:32*	*1*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*75 - 131*	*03/22/24 18:13*	*03/27/24 15:32*	*1*
Dibromofluoromethane	*103*		*75 - 126*	*03/22/24 18:13*	*03/27/24 15:32*	*1*
Toluene-d8 (Surr)	*121*		*75 - 124*	*03/22/24 18:13*	*03/27/24 15:32*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
1,2-Dichlorobenzene	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
1,3-Dichlorobenzene	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
1,4-Dichlorobenzene	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2,2'-oxybis[1-chloropropane]	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1

Client Sample ID: B-9 (13-15')
Date Collected: 03/21/24 11:50
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-11
Matrix: Solid
Percent Solids: 84.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.38	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2,4,6-Trichlorophenol	ND		0.38	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2,4-Dichlorophenol	ND		0.38	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2,4-Dimethylphenol	ND		0.38	0.084	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2,4-Dinitrophenol	ND		0.76	0.22	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2,4-Dinitrotoluene	ND		0.19	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2,6-Dinitrotoluene	ND		0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2-Chloronaphthalene	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2-Chlorophenol	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2-Methylnaphthalene	**0.57**		0.076	0.0076	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2-Methylphenol	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2-Nitroaniline	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
2-Nitrophenol	ND		0.38	0.026	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
3 & 4 Methylphenol	ND		0.19	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
3,3'-Dichlorobenzidine	ND		0.19	0.031	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
3-Nitroaniline	ND		0.38	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
4,6-Dinitro-2-methylphenol	ND		0.76	0.21	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
4-Bromophenyl phenyl ether	ND		0.19	0.026	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
4-Chloro-3-methylphenol	ND		0.38	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
4-Chloroaniline	ND		0.76	0.40	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
4-Chlorophenyl phenyl ether	ND		0.19	0.049	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
4-Nitroaniline	ND		0.38	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
4-Nitrophenol	ND		0.76	0.14	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Acenaphthene	**0.034**	**J**	0.038	0.0077	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Acenaphthylene	ND		0.038	0.0064	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Anthracene	**0.031**	**J**	0.038	0.0077	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Benzo[a]anthracene	ND		0.038	0.0080	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Benzo[a]pyrene	ND		0.038	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Benzo[b]fluoranthene	ND		0.038	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Benzo[g,h,i]perylene	ND		0.038	0.0082	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Benzo[k]fluoranthene	ND		0.038	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Bis(2-chloroethoxy)methane	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Bis(2-chloroethyl)ether	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Bis(2-ethylhexyl) phthalate	ND		0.19	0.15	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Butyl benzyl phthalate	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Carbazole	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Chrysene	ND		0.038	0.0099	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Dibenz(a,h)anthracene	ND		0.038	0.038	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Dibenzofuran	**0.024**	**J**	0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Diethyl phthalate	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Dimethyl phthalate	ND		0.19	0.0082	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Di-n-butyl phthalate	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Di-n-octyl phthalate	ND		0.38	0.26	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Fluoranthene	**0.011**	**J**	0.038	0.0088	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Fluorene	**0.039**		0.038	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Hexachlorobenzene	ND		0.076	0.0072	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Hexachlorobutadiene	ND		0.19	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Hexachlorocyclopentadiene	ND		0.76	0.40	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Hexachloroethane	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1

Client Sample ID: B-9 (13-15')
Date Collected: 03/21/24 11:50
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-11
Matrix: Solid
Percent Solids: 84.8

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.038	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Isophorone	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Naphthalene	**0.44**		0.038	0.0068	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Nitrobenzene	ND		0.038	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
N-Nitrosodi-n-propylamine	ND		0.076	0.0074	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
N-Nitrosodiphenylamine	ND		0.19	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Pentachlorophenol	ND		0.76	0.094	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Phenanthrene	**0.21**		0.038	0.0082	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Phenol	ND		0.19	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1
Pyrene	**0.031**	**J**	0.038	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*31 - 143*	*03/25/24 13:48*	*03/26/24 16:58*	*1*
2-Fluorobiphenyl	*67*		*43 - 145*	*03/25/24 13:48*	*03/26/24 16:58*	*1*
2-Fluorophenol (Surr)	*65*		*31 - 166*	*03/25/24 13:48*	*03/26/24 16:58*	*1*
Nitrobenzene-d5	*62*		*37 - 147*	*03/25/24 13:48*	*03/26/24 16:58*	*1*
Phenol-d5 (Surr)	*70*		*30 - 153*	*03/25/24 13:48*	*03/26/24 16:58*	*1*
Terphenyl-d14	*72*		*42 - 157*	*03/25/24 13:48*	*03/26/24 16:58*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.4**		1.1	0.36	mg/Kg	☼	03/25/24 09:47	03/27/24 18:01	1
Barium	**36**		1.1	0.12	mg/Kg	☼	03/25/24 09:47	03/28/24 14:58	1
Cadmium	**0.077**	**J**	0.21	0.038	mg/Kg	☼	03/25/24 09:47	03/27/24 18:01	1
Chromium	**16**		1.1	0.53	mg/Kg	☼	03/25/24 09:47	03/27/24 18:01	1
Lead	**21**	**^5-**	0.53	0.25	mg/Kg	☼	03/25/24 09:47	03/27/24 18:01	1
Selenium	**1.2**	**^1+**	1.1	0.62	mg/Kg	☼	03/25/24 09:47	03/27/24 18:01	1
Silver	ND		0.53	0.14	mg/Kg	☼	03/25/24 09:47	03/27/24 18:01	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019	0.0099	mg/Kg	☼	03/27/24 16:30	03/28/24 11:07	1

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-10
Date Collected: 03/21/24 11:00
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-12
Matrix: Solid
Percent Solids: 83.9

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.012	0.0071	mg/Kg	☼	03/21/24 11:00	03/28/24 13:53	50
Toluene	ND		0.012	0.0071	mg/Kg	☼	03/21/24 11:00	03/28/24 13:53	50
Ethylbenzene	ND		0.012	0.0089	mg/Kg	☼	03/21/24 11:00	03/28/24 13:53	50
Xylenes, Total	ND		0.024	0.011	mg/Kg	☼	03/21/24 11:00	03/28/24 13:53	50
Methyl tert-butyl ether	ND		0.049	0.019	mg/Kg	☼	03/21/24 11:00	03/28/24 13:53	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*75 - 126*	*03/21/24 11:00*	*03/28/24 13:53*	*50*
Toluene-d8 (Surr)	*100*		*75 - 120*	*03/21/24 11:00*	*03/28/24 13:53*	*50*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*	*03/21/24 11:00*	*03/28/24 13:53*	*50*
Dibromofluoromethane	*109*		*75 - 120*	*03/21/24 11:00*	*03/28/24 13:53*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.078	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Acenaphthylene	ND		0.078	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Anthracene	ND		0.078	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Benzo[a]anthracene	**0.12**		0.078	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Benzo[a]pyrene	ND		0.078	0.076	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Benzo[b]fluoranthene	ND		0.078	0.075	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Benzo[g,h,i]perylene	**0.073**	**J**	0.078	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Benzo[k]fluoranthene	ND		0.078	0.030	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Chrysene	**0.18**		0.078	0.021	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Dibenz(a,h)anthracene	ND		0.078	0.078	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Fluoranthene	**0.039**	**J**	0.078	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Fluorene	ND		0.078	0.023	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Indeno[1,2,3-cd]pyrene	ND		0.078	0.077	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Naphthalene	ND		0.078	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Phenanthrene	**0.098**		0.078	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2
Pyrene	**0.21**		0.078	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 18:33	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*55*		*37 - 147*	*03/25/24 13:48*	*03/26/24 18:33*	*2*
2-Fluorobiphenyl (Surr)	*60*		*43 - 145*	*03/25/24 13:48*	*03/26/24 18:33*	*2*
Terphenyl-d14 (Surr)	*67*		*42 - 157*	*03/25/24 13:48*	*03/26/24 18:33*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**	**^5-**	0.56	0.26	mg/Kg	☼	03/25/24 09:47	03/27/24 18:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.5**		0.2	0.2	SU			03/27/24 14:33	1

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-11
Date Collected: 03/21/24 11:20
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-13
Matrix: Solid
Percent Solids: 85.3

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0016	0.00052	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
1,1,2,2-Tetrachloroethane	ND		0.0016	0.00050	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
1,1,2-Trichloroethane	ND		0.0016	0.00067	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
1,1-Dichloroethane	ND		0.0016	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
1,1-Dichloroethene	ND		0.0016	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
1,2-Dichloroethane	ND		0.0039	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
1,2-Dichloropropane	ND		0.0016	0.00040	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
1,3-Dichloropropene, Total	ND		0.0016	0.00055	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
2-Hexanone	ND		0.0039	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Acetone	ND		0.016	0.0068	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Benzene	ND		0.0016	0.00040	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Bromodichloromethane	ND		0.0016	0.00032	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Bromoform	ND		0.0016	0.00046	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Bromomethane	ND		0.0039	0.0015	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Carbon disulfide	ND		0.0039	0.00081	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Carbon tetrachloride	ND		0.0016	0.00045	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Chlorobenzene	ND		0.0016	0.00058	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Chloroethane	ND		0.0039	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Chloroform	ND		0.0016	0.00054	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Chloromethane	ND		0.0039	0.0016	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
cis-1,2-Dichloroethene	ND		0.0016	0.00044	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
cis-1,3-Dichloropropene	ND		0.0016	0.00047	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Dibromochloromethane	ND		0.0016	0.00051	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Ethylbenzene	ND		0.0016	0.00075	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Methyl Ethyl Ketone	ND		0.0039	0.0017	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
methyl isobutyl ketone	ND		0.0039	0.0012	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Methyl tert-butyl ether	ND		0.0016	0.00046	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Methylene Chloride	ND		0.0039	0.0015	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Styrene	ND		0.0016	0.00047	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Tetrachloroethene	ND		0.0016	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Toluene	ND		0.0016	0.00039	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
trans-1,2-Dichloroethene	ND		0.0016	0.00069	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
trans-1,3-Dichloropropene	ND		0.0016	0.00055	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Trichloroethene	ND		0.0016	0.00053	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Vinyl chloride	ND		0.0016	0.00069	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1
Xylenes, Total	ND		0.0031	0.00050	mg/Kg	☼	03/22/24 18:13	03/27/24 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 134*	*03/22/24 18:13*	*03/27/24 15:56*	*1*
4-Bromofluorobenzene (Surr)	*115*		*75 - 131*	*03/22/24 18:13*	*03/27/24 15:56*	*1*
Dibromofluoromethane	*107*		*75 - 126*	*03/22/24 18:13*	*03/27/24 15:56*	*1*
Toluene-d8 (Surr)	*112*		*75 - 124*	*03/22/24 18:13*	*03/27/24 15:56*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
1,2-Dichlorobenzene	ND		0.19	0.016	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
1,3-Dichlorobenzene	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
1,4-Dichlorobenzene	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2,2'-oxybis[1-chloropropane]	ND		0.19	0.027	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1

Client Sample ID: B-11
Date Collected: 03/21/24 11:20
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-13
Matrix: Solid
Percent Solids: 85.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.38	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2,4,6-Trichlorophenol	ND		0.38	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2,4-Dichlorophenol	ND		0.38	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2,4-Dimethylphenol	ND		0.38	0.085	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2,4-Dinitrophenol	ND		0.77	0.22	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2,4-Dinitrotoluene	ND		0.19	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2,6-Dinitrotoluene	ND		0.19	0.013	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2-Chloronaphthalene	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2-Chlorophenol	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2-Methylnaphthalene	ND		0.077	0.0077	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2-Methylphenol	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2-Nitroaniline	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
2-Nitrophenol	ND		0.38	0.026	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
3 & 4 Methylphenol	ND		0.19	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
3,3'-Dichlorobenzidine	ND		0.19	0.031	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
3-Nitroaniline	ND		0.38	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
4,6-Dinitro-2-methylphenol	ND		0.77	0.22	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
4-Bromophenyl phenyl ether	ND		0.19	0.026	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
4-Chloro-3-methylphenol	ND		0.38	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
4-Chloroaniline	ND		0.77	0.40	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
4-Chlorophenyl phenyl ether	ND		0.19	0.050	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
4-Nitroaniline	ND		0.38	0.028	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
4-Nitrophenol	ND		0.77	0.14	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Acenaphthene	ND		0.038	0.0078	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Acenaphthylene	ND		0.038	0.0065	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Anthracene	ND		0.038	0.0078	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Benzo[a]anthracene	ND		0.038	0.0081	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Benzo[a]pyrene	ND		0.038	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Benzo[b]fluoranthene	ND		0.038	0.036	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Benzo[g,h,i]perylene	**0.020**	**J**	0.038	0.0083	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Benzo[k]fluoranthene	ND		0.038	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Bis(2-chloroethoxy)methane	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Bis(2-chloroethyl)ether	ND		0.19	0.018	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Bis(2-ethylhexyl) phthalate	ND		0.19	0.15	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Butyl benzyl phthalate	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Carbazole	ND		0.19	0.015	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Chrysene	ND		0.038	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Dibenz(a,h)anthracene	ND		0.038	0.038	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Dibenzofuran	ND		0.19	0.014	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Diethyl phthalate	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Dimethyl phthalate	ND		0.19	0.0083	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Di-n-butyl phthalate	ND		0.19	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Di-n-octyl phthalate	ND		0.38	0.27	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Fluoranthene	ND		0.038	0.0089	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Fluorene	ND		0.038	0.011	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Hexachlorobenzene	ND		0.077	0.0073	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Hexachlorobutadiene	ND		0.19	0.022	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Hexachlorocyclopentadiene	ND		0.77	0.40	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Hexachloroethane	ND		0.19	0.019	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1

Client Sample ID: B-11
Date Collected: 03/21/24 11:20
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-13
Matrix: Solid
Percent Solids: 85.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.038	0.037	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Isophorone	ND		0.19	0.020	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Naphthalene	ND		0.038	0.0069	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Nitrobenzene	ND		0.038	0.012	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
N-Nitrosodi-n-propylamine	ND		0.077	0.0075	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
N-Nitrosodiphenylamine	ND		0.19	0.023	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Pentachlorophenol	ND		0.77	0.095	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Phenanthrene	ND		0.038	0.0083	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Phenol	ND		0.19	0.017	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1
Pyrene	ND		0.038	0.010	mg/Kg	☼	03/25/24 13:48	03/26/24 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*31 - 143*	*03/25/24 13:48*	*03/26/24 16:34*	*1*
2-Fluorobiphenyl	*63*		*43 - 145*	*03/25/24 13:48*	*03/26/24 16:34*	*1*
2-Fluorophenol (Surr)	*60*		*31 - 166*	*03/25/24 13:48*	*03/26/24 16:34*	*1*
Nitrobenzene-d5	*60*		*37 - 147*	*03/25/24 13:48*	*03/26/24 16:34*	*1*
Phenol-d5 (Surr)	*67*		*30 - 153*	*03/25/24 13:48*	*03/26/24 16:34*	*1*
Terphenyl-d14	*78*		*42 - 157*	*03/25/24 13:48*	*03/26/24 16:34*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.3**		1.1	0.37	mg/Kg	☼	03/25/24 09:47	03/27/24 18:09	1
Barium	**46**		1.1	0.12	mg/Kg	☼	03/25/24 09:47	03/28/24 15:02	1
Cadmium	**0.096**	**J**	0.21	0.039	mg/Kg	☼	03/25/24 09:47	03/27/24 18:09	1
Chromium	**16**		1.1	0.53	mg/Kg	☼	03/25/24 09:47	03/27/24 18:09	1
Lead	**14**	**^5-**	0.54	0.25	mg/Kg	☼	03/25/24 09:47	03/27/24 18:09	1
Selenium	**0.88**	**J ^1+**	1.1	0.63	mg/Kg	☼	03/25/24 09:47	03/27/24 18:09	1
Silver	ND		0.54	0.14	mg/Kg	☼	03/25/24 09:47	03/27/24 18:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.015**	**J**	0.019	0.010	mg/Kg	☼	03/27/24 16:30	03/28/24 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	**8.5**		0.2	0.2	SU			03/27/24 14:36	1

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: TW-1

Date Collected: 03/21/24 09:15
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-14

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00050	0.00015	mg/L			03/28/24 11:02	1
Toluene	ND		0.00050	0.00015	mg/L			03/28/24 11:02	1
Ethylbenzene	ND		0.00050	0.00018	mg/L			03/28/24 11:02	1
Xylenes, Total	**0.00076**	**J**	0.0010	0.00022	mg/L			03/28/24 11:02	1
Methyl tert-butyl ether	ND		0.0010	0.00039	mg/L			03/28/24 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*75 - 126*		*03/28/24 11:02*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*03/28/24 11:02*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*03/28/24 11:02*	*1*
Dibromofluoromethane	*112*		*75 - 120*		*03/28/24 11:02*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.00074	0.00023	mg/L		03/26/24 09:31	03/27/24 19:28	1
Acenaphthylene	ND		0.00074	0.00020	mg/L		03/26/24 09:31	03/27/24 19:28	1
Anthracene	ND		0.00074	0.00025	mg/L		03/26/24 09:31	03/27/24 19:28	1
Benzo[a]anthracene	**0.00013**		0.00012	0.000042	mg/L		03/26/24 09:31	03/27/24 19:28	1
Benzo[a]pyrene	**0.00016**		0.00015	0.000073	mg/L		03/26/24 09:31	03/27/24 19:28	1
Benzo[b]fluoranthene	**0.00030**		0.00015	0.000060	mg/L		03/26/24 09:31	03/27/24 19:28	1
Benzo[g,h,i]perylene	**0.00035**	**J**	0.00074	0.00028	mg/L		03/26/24 09:31	03/27/24 19:28	1
Benzo[k]fluoranthene	**0.000089**	**J**	0.00015	0.000047	mg/L		03/26/24 09:31	03/27/24 19:28	1
Chrysene	**0.00013**	**J**	0.00015	0.000050	mg/L		03/26/24 09:31	03/27/24 19:28	1
Dibenz(a,h)anthracene	ND		0.00022	0.000037	mg/L		03/26/24 09:31	03/27/24 19:28	1
Fluoranthene	ND		0.00074	0.00034	mg/L		03/26/24 09:31	03/27/24 19:28	1
Indeno[1,2,3-cd]pyrene	**0.00023**		0.00015	0.000055	mg/L		03/26/24 09:31	03/27/24 19:28	1
Naphthalene	ND		0.00074	0.00023	mg/L		03/26/24 09:31	03/27/24 19:28	1
Phenanthrene	ND		0.00074	0.00022	mg/L		03/26/24 09:31	03/27/24 19:28	1
Pyrene	ND		0.00074	0.00031	mg/L		03/26/24 09:31	03/27/24 19:28	1
Fluorene	ND		0.00074	0.00018	mg/L		03/26/24 09:31	03/27/24 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*77*		*36 - 120*	*03/26/24 09:31*	*03/27/24 19:28*	*1*
2-Fluorobiphenyl	*75*		*34 - 110*	*03/26/24 09:31*	*03/27/24 19:28*	*1*
Terphenyl-d14 (Surr)	*49*		*40 - 145*	*03/26/24 09:31*	*03/27/24 19:28*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.014**		0.0050	0.0027	mg/L		03/27/24 08:36	03/28/24 17:10	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 759682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-8	B-7	Total/NA	Solid	5035	
500-247959-10	B-9	Total/NA	Solid	5035	
500-247959-12	B-10	Total/NA	Solid	5035	
500-247959-8 MS	B-7	Total/NA	Solid	5035	
500-247959-8 MSD	B-7	Total/NA	Solid	5035	

Prep Batch: 759691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-1	B-2	Total/NA	Solid	5035	
500-247959-2	B-3	Total/NA	Solid	5035	
500-247959-3	B-4	Total/NA	Solid	5035	
500-247959-4	B-5	Total/NA	Solid	5035	
500-247959-5	B-6	Total/NA	Solid	5035	
500-247959-6	B-6 (13-15')	Total/NA	Solid	5035	
500-247959-7	B-3 (13-15')	Total/NA	Solid	5035	
500-247959-9	B-8	Total/NA	Solid	5035	
500-247959-11	B-9 (13-15')	Total/NA	Solid	5035	
500-247959-13	B-11	Total/NA	Solid	5035	

Analysis Batch: 760100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-1	B-2	Total/NA	Solid	8260D	759691
500-247959-2	B-3	Total/NA	Solid	8260D	759691
500-247959-3	B-4	Total/NA	Solid	8260D	759691
500-247959-4	B-5	Total/NA	Solid	8260D	759691
500-247959-5	B-6	Total/NA	Solid	8260D	759691
500-247959-6	B-6 (13-15')	Total/NA	Solid	8260D	759691
500-247959-7	B-3 (13-15')	Total/NA	Solid	8260D	759691
500-247959-9	B-8	Total/NA	Solid	8260D	759691
500-247959-11	B-9 (13-15')	Total/NA	Solid	8260D	759691
500-247959-13	B-11	Total/NA	Solid	8260D	759691
MB 500-760100/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-760100/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-760100/4	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 760279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-10	B-9	Total/NA	Solid	8260D	759682
500-247959-12	B-10	Total/NA	Solid	8260D	759682
MB 500-760279/6	Method Blank	Total/NA	Solid	8260D	
LCS 500-760279/4	Lab Control Sample	Total/NA	Solid	8260D	

Analysis Batch: 760287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-14	TW-1	Total/NA	Water	8260D	
MB 500-760287/7	Method Blank	Total/NA	Water	8260D	
LCS 500-760287/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 760288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-8	B-7	Total/NA	Solid	8260D	759682

GC/MS VOA (Continued)

Analysis Batch: 760288 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-760288/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-760288/4	Lab Control Sample	Total/NA	Solid	8260D	
500-247959-8 MS	B-7	Total/NA	Solid	8260D	759682
500-247959-8 MSD	B-7	Total/NA	Solid	8260D	759682

GC/MS Semi VOA

Prep Batch: 759837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-1	B-2	Total/NA	Solid	3546	
500-247959-2	B-3	Total/NA	Solid	3546	
500-247959-3	B-4	Total/NA	Solid	3546	
500-247959-4	B-5	Total/NA	Solid	3546	
500-247959-5	B-6	Total/NA	Solid	3546	
500-247959-6	B-6 (13-15')	Total/NA	Solid	3546	
500-247959-7	B-3 (13-15')	Total/NA	Solid	3546	
500-247959-8	B-7	Total/NA	Solid	3546	
500-247959-9	B-8	Total/NA	Solid	3546	
500-247959-10	B-9	Total/NA	Solid	3546	
500-247959-11	B-9 (13-15')	Total/NA	Solid	3546	
500-247959-12	B-10	Total/NA	Solid	3546	
500-247959-13	B-11	Total/NA	Solid	3546	
MB 500-759837/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-759837/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 759965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-1	B-2	Total/NA	Solid	8270E	759837
500-247959-2	B-3	Total/NA	Solid	8270E	759837
500-247959-3	B-4	Total/NA	Solid	8270E	759837
500-247959-4	B-5	Total/NA	Solid	8270E	759837
500-247959-5	B-6	Total/NA	Solid	8270E	759837
500-247959-6	B-6 (13-15')	Total/NA	Solid	8270E	759837
500-247959-7	B-3 (13-15')	Total/NA	Solid	8270E	759837
500-247959-8	B-7	Total/NA	Solid	8270E	759837
500-247959-9	B-8	Total/NA	Solid	8270E	759837
500-247959-10	B-9	Total/NA	Solid	8270E	759837
500-247959-11	B-9 (13-15')	Total/NA	Solid	8270E	759837
500-247959-12	B-10	Total/NA	Solid	8270E	759837
500-247959-13	B-11	Total/NA	Solid	8270E	759837
MB 500-759837/1-A	Method Blank	Total/NA	Solid	8270E	759837
LCS 500-759837/2-A	Lab Control Sample	Total/NA	Solid	8270E	759837

Prep Batch: 759977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-14	TW-1	Total/NA	Water	3510C	
MB 500-759977/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-759977/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC/MS Semi VOA

Analysis Batch: 760133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-14	TW-1	Total/NA	Water	8270E	759977

Analysis Batch: 760141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-759977/1-A	Method Blank	Total/NA	Water	8270E	759977
LCS 500-759977/2-A	Lab Control Sample	Total/NA	Water	8270E	759977

Metals

Prep Batch: 759807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-1	B-2	Total/NA	Solid	3050B	
500-247959-2	B-3	Total/NA	Solid	3050B	
500-247959-3	B-4	Total/NA	Solid	3050B	
500-247959-4	B-5	Total/NA	Solid	3050B	
500-247959-5	B-6	Total/NA	Solid	3050B	
500-247959-6	B-6 (13-15')	Total/NA	Solid	3050B	
500-247959-7	B-3 (13-15')	Total/NA	Solid	3050B	
500-247959-8	B-7	Total/NA	Solid	3050B	
500-247959-9	B-8	Total/NA	Solid	3050B	
500-247959-10	B-9	Total/NA	Solid	3050B	
500-247959-11	B-9 (13-15')	Total/NA	Solid	3050B	
500-247959-12	B-10	Total/NA	Solid	3050B	
500-247959-13	B-11	Total/NA	Solid	3050B	
MB 500-759807/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-759807/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 760161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-14	TW-1	Total/NA	Water	3010A	
MB 500-760161/1-A	Method Blank	Total/NA	Water	3010A	
LCS 500-760161/2-A	Lab Control Sample	Total/NA	Water	3010A	

Prep Batch: 760228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-1	B-2	Total/NA	Solid	7471B	
500-247959-2	B-3	Total/NA	Solid	7471B	
500-247959-3	B-4	Total/NA	Solid	7471B	
500-247959-4	B-5	Total/NA	Solid	7471B	
500-247959-5	B-6	Total/NA	Solid	7471B	
500-247959-6	B-6 (13-15')	Total/NA	Solid	7471B	
500-247959-7	B-3 (13-15')	Total/NA	Solid	7471B	
500-247959-8	B-7	Total/NA	Solid	7471B	
500-247959-9	B-8	Total/NA	Solid	7471B	
500-247959-11	B-9 (13-15')	Total/NA	Solid	7471B	
500-247959-13	B-11	Total/NA	Solid	7471B	
MB 500-760228/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-760228/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-247959-11 MS	B-9 (13-15')	Total/NA	Solid	7471B	
500-247959-11 MSD	B-9 (13-15')	Total/NA	Solid	7471B	
500-247959-11 DU	B-9 (13-15')	Total/NA	Solid	7471B	

Metals

Analysis Batch: 760340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-1	B-2	Total/NA	Solid	6010D	759807
500-247959-2	B-3	Total/NA	Solid	6010D	759807
500-247959-3	B-4	Total/NA	Solid	6010D	759807
500-247959-4	B-5	Total/NA	Solid	6010D	759807
500-247959-5	B-6	Total/NA	Solid	6010D	759807
500-247959-6	B-6 (13-15')	Total/NA	Solid	6010D	759807
500-247959-7	B-3 (13-15')	Total/NA	Solid	6010D	759807
500-247959-8	B-7	Total/NA	Solid	6010D	759807
500-247959-9	B-8	Total/NA	Solid	6010D	759807
500-247959-10	B-9	Total/NA	Solid	6010D	759807
500-247959-11	B-9 (13-15')	Total/NA	Solid	6010D	759807
500-247959-12	B-10	Total/NA	Solid	6010D	759807
500-247959-13	B-11	Total/NA	Solid	6010D	759807
MB 500-759807/1-A	Method Blank	Total/NA	Solid	6010D	759807
LCS 500-759807/2-A	Lab Control Sample	Total/NA	Solid	6010D	759807

Analysis Batch: 760426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-1	B-2	Total/NA	Solid	7471B	760228
500-247959-2	B-3	Total/NA	Solid	7471B	760228
500-247959-3	B-4	Total/NA	Solid	7471B	760228
500-247959-4	B-5	Total/NA	Solid	7471B	760228
500-247959-5	B-6	Total/NA	Solid	7471B	760228
500-247959-6	B-6 (13-15')	Total/NA	Solid	7471B	760228
500-247959-7	B-3 (13-15')	Total/NA	Solid	7471B	760228
500-247959-8	B-7	Total/NA	Solid	7471B	760228
500-247959-9	B-8	Total/NA	Solid	7471B	760228
500-247959-11	B-9 (13-15')	Total/NA	Solid	7471B	760228
500-247959-13	B-11	Total/NA	Solid	7471B	760228
MB 500-760228/12-A	Method Blank	Total/NA	Solid	7471B	760228
LCS 500-760228/13-A	Lab Control Sample	Total/NA	Solid	7471B	760228
500-247959-11 MS	B-9 (13-15')	Total/NA	Solid	7471B	760228
500-247959-11 MSD	B-9 (13-15')	Total/NA	Solid	7471B	760228
500-247959-11 DU	B-9 (13-15')	Total/NA	Solid	7471B	760228

Analysis Batch: 760583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-14	TW-1	Total/NA	Water	6010D	760161
MB 500-760161/1-A	Method Blank	Total/NA	Water	6010D	760161
LCS 500-760161/2-A	Lab Control Sample	Total/NA	Water	6010D	760161

Analysis Batch: 760584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-1	B-2	Total/NA	Solid	6010D	759807
500-247959-2	B-3	Total/NA	Solid	6010D	759807
500-247959-3	B-4	Total/NA	Solid	6010D	759807
500-247959-4	B-5	Total/NA	Solid	6010D	759807
500-247959-5	B-6	Total/NA	Solid	6010D	759807
500-247959-6	B-6 (13-15')	Total/NA	Solid	6010D	759807
500-247959-7	B-3 (13-15')	Total/NA	Solid	6010D	759807
500-247959-8	B-7	Total/NA	Solid	6010D	759807

Metals (Continued)

Analysis Batch: 760584 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-9	B-8	Total/NA	Solid	6010D	759807
500-247959-11	B-9 (13-15')	Total/NA	Solid	6010D	759807
500-247959-13	B-11	Total/NA	Solid	6010D	759807

General Chemistry

Analysis Batch: 760172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-1	B-2	Total/NA	Solid	Moisture	
500-247959-2	B-3	Total/NA	Solid	Moisture	
500-247959-3	B-4	Total/NA	Solid	Moisture	
500-247959-4	B-5	Total/NA	Solid	Moisture	
500-247959-5	B-6	Total/NA	Solid	Moisture	
500-247959-6	B-6 (13-15')	Total/NA	Solid	Moisture	
500-247959-7	B-3 (13-15')	Total/NA	Solid	Moisture	
500-247959-8	B-7	Total/NA	Solid	Moisture	

Analysis Batch: 760179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-9	B-8	Total/NA	Solid	Moisture	
500-247959-10	B-9	Total/NA	Solid	Moisture	
500-247959-12	B-10	Total/NA	Solid	Moisture	
500-247959-13	B-11	Total/NA	Solid	Moisture	

Analysis Batch: 760295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-1	B-2	Total/NA	Solid	9045D	
500-247959-2	B-3	Total/NA	Solid	9045D	
500-247959-3	B-4	Total/NA	Solid	9045D	
500-247959-4	B-5	Total/NA	Solid	9045D	
500-247959-5	B-6	Total/NA	Solid	9045D	
500-247959-8	B-7	Total/NA	Solid	9045D	
500-247959-9	B-8	Total/NA	Solid	9045D	
500-247959-10	B-9	Total/NA	Solid	9045D	
500-247959-12	B-10	Total/NA	Solid	9045D	
500-247959-13	B-11	Total/NA	Solid	9045D	
LCS 500-760295/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-760295/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 760550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247959-11	B-9 (13-15')	Total/NA	Solid	Moisture	

Surrogate Summary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-134)	(75-131)	(75-126)	(75-124)
500-247959-1	B-2	127	109	110	107
500-247959-2	B-3	123	108	114	107
500-247959-3	B-4	120	113	109	110
500-247959-4	B-5	118	119	108	117
500-247959-5	B-6	122	108	110	109
500-247959-6	B-6 (13-15')	116	116	107	108
500-247959-7	B-3 (13-15')	122	110	112	107
500-247959-9	B-8	119	110	112	106
500-247959-11	B-9 (13-15')	116	146 S1+	103	121
500-247959-13	B-11	121	115	107	112
LCS 500-760100/3	Lab Control Sample	108	103	105	112
LCSD 500-760100/4	Lab Control Sample Dup	107	102	104	111
MB 500-760100/6	Method Blank	116	109	111	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-126)	(75-120)	(72-124)	(75-120)
500-247959-8	B-7	123	102	100	113
500-247959-8 MS	B-7	121	99	99	113
500-247959-8 MSD	B-7	110	101	99	111
500-247959-10	B-9	126	101	98	108
500-247959-12	B-10	124	100	99	109
LCS 500-760279/4	Lab Control Sample	118	105	93	109
LCS 500-760288/4	Lab Control Sample	120	100	92	112
MB 500-760279/6	Method Blank	124	100	100	111
MB 500-760288/7	Method Blank	121	101	102	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-126)	(75-120)	(72-124)	(75-120)
500-247959-14	TW-1	120	102	101	112
LCS 500-760287/4	Lab Control Sample	120	100	92	112
MB 500-760287/7	Method Blank	121	101	102	111

Surrogate Summary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TBP (31-143)	FBP (43-145)	FBP (43-145)	2FP (31-166)	NBZ (37-147)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)
500-247959-1	B-2	65	57	57	52	55	55	58	65
500-247959-2	B-3	74	64	64	66	54	54	70	70
500-247959-3	B-4	76	69	69	72	69	69	76	74
500-247959-4	B-5	89	76	76	70	64	64	77	78
500-247959-5	B-6	61	59	59	55	55	55	60	58
500-247959-6	B-6 (13-15')	72	50	50	55	52	52	60	75
500-247959-7	B-3 (13-15')	70	61	61	63	63	63	66	70
500-247959-8	B-7	78	62	62	60	60	60	66	75
500-247959-9	B-8	63	57	57	59	56	56	61	64
500-247959-10	B-9		65	65		61	61		72
500-247959-11	B-9 (13-15')	78	67	67	65	62	62	70	72
500-247959-12	B-10		60	60		55	55		67
500-247959-13	B-11	81	63	63	60	60	60	67	78
LCS 500-759837/2-A	Lab Control Sample	90	80	80	85	83	83	88	76
MB 500-759837/1-A	Method Blank	83	82	82	85	85	85	89	81

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TPHL (42-157)							
500-247959-1	B-2	65							
500-247959-2	B-3	70							
500-247959-3	B-4	74							
500-247959-4	B-5	78							
500-247959-5	B-6	58							
500-247959-6	B-6 (13-15')	75							
500-247959-7	B-3 (13-15')	70							
500-247959-8	B-7	75							
500-247959-9	B-8	64							
500-247959-10	B-9	72							
500-247959-11	B-9 (13-15')	72							
500-247959-12	B-10	67							
500-247959-13	B-11	78							
LCS 500-759837/2-A	Lab Control Sample	76							
MB 500-759837/1-A	Method Blank	81							

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14

Surrogate Summary

Client: ECS Midwest LLC
Job ID: 500-247959-1
Project/Site: Crest Hill SSI

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(36-120)	(34-110)	(40-145)
500-247959-14	TW-1	77	75	49
LCS 500-759977/2-A	Lab Control Sample	84	76	97
MB 500-759977/1-A	Method Blank	78	72	90

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: 500-247959-8 MS
Matrix: Solid
Analysis Batch: 760288

Client Sample ID: B-7
Prep Type: Total/NA
Prep Batch: 759682

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		1.96	2.01		mg/Kg	☼	102	70 - 125
1,1,2,2-Tetrachloroethane	ND		1.96	1.51		mg/Kg	☼	77	62 - 140
1,1,2-Trichloroethane	ND	F1	1.96	2.77	F1	mg/Kg	☼	141	71 - 130
1,1-Dichloroethane	ND		1.96	1.65		mg/Kg	☼	84	70 - 125
1,1-Dichloroethene	ND		1.96	1.56		mg/Kg	☼	80	67 - 122
1,2-Dichloroethane	ND		1.96	2.17		mg/Kg	☼	110	68 - 127
1,2-Dichloropropane	ND		1.96	1.70		mg/Kg	☼	86	67 - 130
2-Hexanone	0.70	F1	1.96	0.671	F1	mg/Kg	☼	-2	54 - 146
Acetone	0.17	J F2 F1	1.96	1.17		mg/Kg	☼	51	40 - 143
Benzene	0.043		1.96	1.55		mg/Kg	☼	77	70 - 120
Bromodichloromethane	ND		1.96	2.23		mg/Kg	☼	114	69 - 120
Bromoform	ND		1.96	1.77		mg/Kg	☼	90	56 - 132
Bromomethane	ND		1.96	1.60		mg/Kg	☼	82	40 - 152
Carbon disulfide	ND	F1	1.96	1.27	F1	mg/Kg	☼	65	66 - 120
Carbon tetrachloride	ND		1.96	2.07		mg/Kg	☼	106	59 - 133
Chlorobenzene	ND		1.96	1.85		mg/Kg	☼	94	70 - 120
Chloroethane	ND		1.96	1.64		mg/Kg	☼	84	48 - 136
Chloroform	ND		1.96	1.75		mg/Kg	☼	89	70 - 120
Chloromethane	ND		1.96	1.48		mg/Kg	☼	75	56 - 152
cis-1,2-Dichloroethene	ND		1.96	1.70		mg/Kg	☼	87	70 - 125
cis-1,3-Dichloropropene	ND		1.96	1.57		mg/Kg	☼	80	64 - 127
Dibromochloromethane	ND		1.96	1.95		mg/Kg	☼	100	68 - 125
Ethylbenzene	7.6	F1	1.96	8.88	E F1	mg/Kg	☼	67	70 - 123
Methyl Ethyl Ketone	2.0	F1	1.96	1.68	F1	mg/Kg	☼	-14	46 - 144
methyl isobutyl ketone	ND		1.96	1.51		mg/Kg	☼	77	55 - 139
Methyl tert-butyl ether	ND		1.96	1.64		mg/Kg	☼	84	55 - 123
Methylene Chloride	ND		1.96	1.53		mg/Kg	☼	78	69 - 125
Styrene	ND		1.96	1.78		mg/Kg	☼	91	70 - 120
Tetrachloroethene	ND		1.96	1.82		mg/Kg	☼	93	70 - 128
Toluene	0.013		1.96	1.61		mg/Kg	☼	81	70 - 125
trans-1,2-Dichloroethene	ND		1.96	1.65		mg/Kg	☼	84	70 - 125
trans-1,3-Dichloropropene	ND		1.96	1.63		mg/Kg	☼	83	62 - 128
Trichloroethene	ND		1.96	2.02		mg/Kg	☼	103	70 - 125
Vinyl chloride	ND		1.96	1.61		mg/Kg	☼	82	64 - 126
Xylenes, Total	0.65		3.92	3.98		mg/Kg	☼	85	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*121*		*75 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*113*		*75 - 120*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: 500-247959-8 MSD
Matrix: Solid
Analysis Batch: 760288

Client Sample ID: B-7
Prep Type: Total/NA
Prep Batch: 759682

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		1.96	2.12		mg/Kg	☼	108	70 - 125	5	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 500-247959-8 MSD
Matrix: Solid
Analysis Batch: 760288

Client Sample ID: B-7
Prep Type: Total/NA
Prep Batch: 759682

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	ND		1.96	1.53		mg/Kg	☼	78	62 - 140	2	30
1,1,2-Trichloroethane	ND	F1	1.96	2.90	F1	mg/Kg	☼	148	71 - 130	4	30
1,1-Dichloroethane	ND		1.96	1.67		mg/Kg	☼	85	70 - 125	1	30
1,1-Dichloroethene	ND		1.96	1.66		mg/Kg	☼	85	67 - 122	6	30
1,2-Dichloroethane	ND		1.96	2.02		mg/Kg	☼	103	68 - 127	7	30
1,2-Dichloropropane	ND		1.96	1.72		mg/Kg	☼	88	67 - 130	2	30
2-Hexanone	0.70	F1	1.96	0.738	F1	mg/Kg	☼	2	54 - 146	9	30
Acetone	0.17	J F2 F1	1.96	0.846	F2 F1	mg/Kg	☼	34	40 - 143	32	30
Benzene	0.043		1.96	1.61		mg/Kg	☼	80	70 - 120	4	30
Bromodichloromethane	ND		1.96	2.27		mg/Kg	☼	116	69 - 120	2	30
Bromoform	ND		1.96	1.79		mg/Kg	☼	91	56 - 132	1	30
Bromomethane	ND		1.96	1.78		mg/Kg	☼	91	40 - 152	10	30
Carbon disulfide	ND	F1	1.96	1.35		mg/Kg	☼	69	66 - 120	6	30
Carbon tetrachloride	ND		1.96	2.14		mg/Kg	☼	109	59 - 133	3	30
Chlorobenzene	ND		1.96	1.89		mg/Kg	☼	96	70 - 120	2	30
Chloroethane	ND		1.96	1.68		mg/Kg	☼	86	48 - 136	2	30
Chloroform	ND		1.96	1.73		mg/Kg	☼	88	70 - 120	1	30
Chloromethane	ND		1.96	1.54		mg/Kg	☼	78	56 - 152	4	30
cis-1,2-Dichloroethene	ND		1.96	1.73		mg/Kg	☼	88	70 - 125	2	30
cis-1,3-Dichloropropene	ND		1.96	1.62		mg/Kg	☼	82	64 - 127	3	30
Dibromochloromethane	ND		1.96	1.98		mg/Kg	☼	101	68 - 125	2	30
Ethylbenzene	7.6	F1	1.96	8.79	E F1	mg/Kg	☼	62	70 - 123	1	30
Methyl Ethyl Ketone	2.0	F1	1.96	1.72	F1	mg/Kg	☼	-12	46 - 144	2	30
methyl isobutyl ketone	ND		1.96	1.44		mg/Kg	☼	73	55 - 139	5	30
Methyl tert-butyl ether	ND		1.96	1.53		mg/Kg	☼	78	55 - 123	7	30
Methylene Chloride	ND		1.96	1.54		mg/Kg	☼	78	69 - 125	1	30
Styrene	ND		1.96	1.85		mg/Kg	☼	95	70 - 120	4	30
Tetrachloroethene	ND		1.96	1.85		mg/Kg	☼	94	70 - 128	2	30
Toluene	0.013		1.96	1.66		mg/Kg	☼	84	70 - 125	3	30
trans-1,2-Dichloroethene	ND		1.96	1.71		mg/Kg	☼	87	70 - 125	4	30
trans-1,3-Dichloropropene	ND		1.96	1.65		mg/Kg	☼	84	62 - 128	1	30
Trichloroethene	ND		1.96	2.09		mg/Kg	☼	107	70 - 125	3	30
Vinyl chloride	ND		1.96	1.69		mg/Kg	☼	86	64 - 126	5	30
Xylenes, Total	0.65		3.92	4.02		mg/Kg	☼	86	70 - 125	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*111*		*75 - 120*
Toluene-d8 (Surr)	*101*		*75 - 120*

Lab Sample ID: MB 500-760100/6
Matrix: Solid
Analysis Batch: 760100

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0020	0.00067	mg/Kg			03/27/24 10:16	1
1,1,2,2-Tetrachloroethane	ND		0.0020	0.00064	mg/Kg			03/27/24 10:16	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-760100/6
Matrix: Solid
Analysis Batch: 760100

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.0020	0.00086	mg/Kg			03/27/24 10:16	1
1,1-Dichloroethane	ND		0.0020	0.00069	mg/Kg			03/27/24 10:16	1
1,1-Dichloroethene	ND		0.0020	0.00069	mg/Kg			03/27/24 10:16	1
1,2-Dichloroethane	ND		0.0050	0.0016	mg/Kg			03/27/24 10:16	1
1,2-Dichloropropane	ND		0.0020	0.00052	mg/Kg			03/27/24 10:16	1
1,3-Dichloropropene, Total	ND		0.0020	0.00070	mg/Kg			03/27/24 10:16	1
2-Hexanone	ND		0.0050	0.0016	mg/Kg			03/27/24 10:16	1
Acetone	ND		0.020	0.0087	mg/Kg			03/27/24 10:16	1
Benzene	ND		0.0020	0.00051	mg/Kg			03/27/24 10:16	1
Bromodichloromethane	ND		0.0020	0.00041	mg/Kg			03/27/24 10:16	1
Bromoform	ND		0.0020	0.00058	mg/Kg			03/27/24 10:16	1
Bromomethane	ND		0.0050	0.0019	mg/Kg			03/27/24 10:16	1
Carbon disulfide	ND		0.0050	0.0010	mg/Kg			03/27/24 10:16	1
Carbon tetrachloride	ND		0.0020	0.00058	mg/Kg			03/27/24 10:16	1
Chlorobenzene	ND		0.0020	0.00074	mg/Kg			03/27/24 10:16	1
Chloroethane	ND		0.0050	0.0015	mg/Kg			03/27/24 10:16	1
Chloroform	ND		0.0020	0.00069	mg/Kg			03/27/24 10:16	1
Chloromethane	ND		0.0050	0.0020	mg/Kg			03/27/24 10:16	1
cis-1,2-Dichloroethene	ND		0.0020	0.00056	mg/Kg			03/27/24 10:16	1
cis-1,3-Dichloropropene	ND		0.0020	0.00060	mg/Kg			03/27/24 10:16	1
Dibromochloromethane	ND		0.0020	0.00065	mg/Kg			03/27/24 10:16	1
Ethylbenzene	ND		0.0020	0.00096	mg/Kg			03/27/24 10:16	1
Methyl Ethyl Ketone	ND		0.0050	0.0022	mg/Kg			03/27/24 10:16	1
methyl isobutyl ketone	ND		0.0050	0.0015	mg/Kg			03/27/24 10:16	1
Methyl tert-butyl ether	ND		0.0020	0.00059	mg/Kg			03/27/24 10:16	1
Methylene Chloride	ND		0.0050	0.0020	mg/Kg			03/27/24 10:16	1
Styrene	ND		0.0020	0.00060	mg/Kg			03/27/24 10:16	1
Tetrachloroethene	ND		0.0020	0.00068	mg/Kg			03/27/24 10:16	1
Toluene	ND		0.0020	0.00051	mg/Kg			03/27/24 10:16	1
trans-1,2-Dichloroethene	ND		0.0020	0.00089	mg/Kg			03/27/24 10:16	1
trans-1,3-Dichloropropene	ND		0.0020	0.00070	mg/Kg			03/27/24 10:16	1
Trichloroethene	ND		0.0020	0.00068	mg/Kg			03/27/24 10:16	1
Vinyl chloride	ND		0.0020	0.00089	mg/Kg			03/27/24 10:16	1
Xylenes, Total	ND		0.0040	0.00064	mg/Kg			03/27/24 10:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 134*		*03/27/24 10:16*	*1*
4-Bromofluorobenzene (Surr)	*109*		*75 - 131*		*03/27/24 10:16*	*1*
Dibromofluoromethane	*111*		*75 - 126*		*03/27/24 10:16*	*1*
Toluene-d8 (Surr)	*109*		*75 - 124*		*03/27/24 10:16*	*1*

Lab Sample ID: LCS 500-760100/3
Matrix: Solid
Analysis Batch: 760100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			0.0500	0.0459		mg/Kg		92	70 - 128		
1,1,2,2-Tetrachloroethane			0.0500	0.0415		mg/Kg		83	70 - 122		

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-760100/3
Matrix: Solid
Analysis Batch: 760100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0393		mg/Kg		79	70 - 125
1,1-Dichloroethane	0.0500	0.0476		mg/Kg		95	70 - 125
1,1-Dichloroethene	0.0500	0.0427		mg/Kg		85	70 - 120
1,2-Dichloroethane	0.0500	0.0450		mg/Kg		90	70 - 130
1,2-Dichloropropane	0.0500	0.0475		mg/Kg		95	70 - 125
2-Hexanone	0.0500	0.0493		mg/Kg		99	48 - 146
Acetone	0.0500	0.0417		mg/Kg		83	40 - 150
Benzene	0.0500	0.0429		mg/Kg		86	70 - 125
Bromodichloromethane	0.0500	0.0423		mg/Kg		85	67 - 129
Bromoform	0.0500	0.0428		mg/Kg		86	68 - 136
Bromomethane	0.0500	0.0488		mg/Kg		98	70 - 130
Carbon disulfide	0.0500	0.0465		mg/Kg		93	70 - 129
Carbon tetrachloride	0.0500	0.0447		mg/Kg		89	75 - 125
Chlorobenzene	0.0500	0.0421		mg/Kg		84	50 - 150
Chloroethane	0.0500	0.0459		mg/Kg		92	75 - 125
Chloroform	0.0500	0.0463		mg/Kg		93	57 - 135
Chloromethane	0.0500	0.0533		mg/Kg		107	70 - 125
cis-1,2-Dichloroethene	0.0500	0.0415		mg/Kg		83	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0476		mg/Kg		95	70 - 125
Dibromochloromethane	0.0500	0.0389		mg/Kg		78	69 - 125
Ethylbenzene	0.0500	0.0440		mg/Kg		88	61 - 136
Methyl Ethyl Ketone	0.0500	0.0435		mg/Kg		87	47 - 138
methyl isobutyl ketone	0.0500	0.0493		mg/Kg		99	50 - 148
Methyl tert-butyl ether	0.0500	0.0476		mg/Kg		95	50 - 140
Methylene Chloride	0.0500	0.0424		mg/Kg		85	70 - 126
Styrene	0.0500	0.0449		mg/Kg		90	70 - 125
Tetrachloroethene	0.0500	0.0441		mg/Kg		88	70 - 124
Toluene	0.0500	0.0425		mg/Kg		85	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0421		mg/Kg		84	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0470		mg/Kg		94	70 - 125
Trichloroethene	0.0500	0.0413		mg/Kg		83	70 - 125
Vinyl chloride	0.0500	0.0526		mg/Kg		105	70 - 125
Xylenes, Total	0.100	0.0893		mg/Kg		89	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*
4-Bromofluorobenzene (Surr)	*103*		*75 - 131*
Dibromofluoromethane	*105*		*75 - 126*
Toluene-d8 (Surr)	*112*		*75 - 124*

Lab Sample ID: LCSD 500-760100/4
Matrix: Solid
Analysis Batch: 760100

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0486		mg/Kg		97	70 - 128	6	30
1,1,2,2-Tetrachloroethane	0.0500	0.0407		mg/Kg		81	70 - 122	2	30
1,1,2-Trichloroethane	0.0500	0.0389		mg/Kg		78	70 - 125	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 500-760100/4
Matrix: Solid
Analysis Batch: 760100

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			0.0500	0.0494		mg/Kg		99	70 - 125	4	30
1,1-Dichloroethene			0.0500	0.0469		mg/Kg		94	70 - 120	9	30
1,2-Dichloroethane			0.0500	0.0454		mg/Kg		91	70 - 130	1	30
1,2-Dichloropropane			0.0500	0.0477		mg/Kg		95	70 - 125	0	30
2-Hexanone			0.0500	0.0491		mg/Kg		98	48 - 146	0	30
Acetone			0.0500	0.0380		mg/Kg		76	40 - 150	9	30
Benzene			0.0500	0.0446		mg/Kg		89	70 - 125	4	30
Bromodichloromethane			0.0500	0.0429		mg/Kg		86	67 - 129	1	30
Bromoform			0.0500	0.0432		mg/Kg		86	68 - 136	1	30
Bromomethane			0.0500	0.0532		mg/Kg		106	70 - 130	9	30
Carbon disulfide			0.0500	0.0493		mg/Kg		99	70 - 129	6	30
Carbon tetrachloride			0.0500	0.0475		mg/Kg		95	75 - 125	6	30
Chlorobenzene			0.0500	0.0429		mg/Kg		86	50 - 150	2	30
Chloroethane			0.0500	0.0486		mg/Kg		97	75 - 125	6	30
Chloroform			0.0500	0.0466		mg/Kg		93	57 - 135	1	30
Chloromethane			0.0500	0.0569		mg/Kg		114	70 - 125	7	30
cis-1,2-Dichloroethene			0.0500	0.0435		mg/Kg		87	70 - 125	5	30
cis-1,3-Dichloropropene			0.0500	0.0473		mg/Kg		95	70 - 125	1	30
Dibromochloromethane			0.0500	0.0387		mg/Kg		77	69 - 125	1	30
Ethylbenzene			0.0500	0.0460		mg/Kg		92	61 - 136	5	30
Methyl Ethyl Ketone			0.0500	0.0393		mg/Kg		79	47 - 138	10	30
methyl isobutyl ketone			0.0500	0.0466		mg/Kg		93	50 - 148	6	30
Methyl tert-butyl ether			0.0500	0.0477		mg/Kg		95	50 - 140	0	30
Methylene Chloride			0.0500	0.0423		mg/Kg		85	70 - 126	0	30
Styrene			0.0500	0.0475		mg/Kg		95	70 - 125	5	30
Tetrachloroethene			0.0500	0.0465		mg/Kg		93	70 - 124	5	30
Toluene			0.0500	0.0441		mg/Kg		88	70 - 125	4	30
trans-1,2-Dichloroethene			0.0500	0.0445		mg/Kg		89	70 - 125	6	30
trans-1,3-Dichloropropene			0.0500	0.0462		mg/Kg		92	70 - 125	2	30
Trichloroethene			0.0500	0.0425		mg/Kg		85	70 - 125	3	30
Vinyl chloride			0.0500	0.0558		mg/Kg		112	70 - 125	6	30
Xylenes, Total			0.100	0.0940		mg/Kg		94	53 - 147	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 134*
4-Bromofluorobenzene (Surr)	*102*		*75 - 131*
Dibromofluoromethane	*104*		*75 - 126*
Toluene-d8 (Surr)	*111*		*75 - 124*

Lab Sample ID: MB 500-760279/6
Matrix: Solid
Analysis Batch: 760279

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00025	0.00015	mg/Kg			03/28/24 10:39	1
Ethylbenzene	ND		0.00025	0.00018	mg/Kg			03/28/24 10:39	1
Methyl tert-butyl ether	ND		0.0010	0.00039	mg/Kg			03/28/24 10:39	1
Toluene	ND		0.00025	0.00015	mg/Kg			03/28/24 10:39	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-760279/6
Matrix: Solid
Analysis Batch: 760279

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.00050	0.00022	mg/Kg			03/28/24 10:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*75 - 126*		*03/28/24 10:39*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*03/28/24 10:39*	*1*
Dibromofluoromethane	*111*		*75 - 120*		*03/28/24 10:39*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*03/28/24 10:39*	*1*

Lab Sample ID: LCS 500-760279/4
Matrix: Solid
Analysis Batch: 760279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0429		mg/Kg		86	70 - 120
Ethylbenzene	0.0500	0.0475		mg/Kg		95	70 - 123
Methyl tert-butyl ether	0.0500	0.0365		mg/Kg		73	55 - 123
Toluene	0.0500	0.0436		mg/Kg		87	70 - 125
Xylenes, Total	0.100	0.0884		mg/Kg		88	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*118*		*75 - 126*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*
Dibromofluoromethane	*109*		*75 - 120*
Toluene-d8 (Surr)	*105*		*75 - 120*

Lab Sample ID: MB 500-760287/7
Matrix: Water
Analysis Batch: 760287

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00050	0.00015	mg/L			03/28/24 10:38	1
Ethylbenzene	ND		0.00050	0.00018	mg/L			03/28/24 10:38	1
Methyl tert-butyl ether	ND		0.0010	0.00039	mg/L			03/28/24 10:38	1
Toluene	ND		0.00050	0.00015	mg/L			03/28/24 10:38	1
Xylenes, Total	ND		0.0010	0.00022	mg/L			03/28/24 10:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*75 - 126*		*03/28/24 10:38*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*03/28/24 10:38*	*1*
Dibromofluoromethane	*111*		*75 - 120*		*03/28/24 10:38*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*03/28/24 10:38*	*1*

Lab Sample ID: LCS 500-760287/4
Matrix: Water
Analysis Batch: 760287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0391		mg/L		78	70 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-760287/4
Matrix: Water
Analysis Batch: 760287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.0500	0.0434		mg/L		87	70 - 123
Methyl tert-butyl ether	0.0500	0.0461		mg/L		92	55 - 123
Toluene	0.0500	0.0418		mg/L		84	70 - 125
Xylenes, Total	0.100	0.0869		mg/L		87	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*120*		*75 - 126*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*
Dibromofluoromethane	*112*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: MB 500-760288/7
Matrix: Solid
Analysis Batch: 760288

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0010	0.00038	mg/Kg			03/28/24 10:38	1
1,1,2,2-Tetrachloroethane	ND		0.0010	0.00040	mg/Kg			03/28/24 10:38	1
1,1,2-Trichloroethane	ND		0.0010	0.00035	mg/Kg			03/28/24 10:38	1
1,1-Dichloroethane	ND		0.0010	0.00041	mg/Kg			03/28/24 10:38	1
1,1-Dichloroethene	ND		0.0010	0.00039	mg/Kg			03/28/24 10:38	1
1,2-Dichloroethane	ND		0.0010	0.00039	mg/Kg			03/28/24 10:38	1
1,2-Dichloropropane	ND		0.0010	0.00043	mg/Kg			03/28/24 10:38	1
1,3-Dichloropropene, Total	ND		0.0010	0.00042	mg/Kg			03/28/24 10:38	1
2-Hexanone	ND		0.0050	0.0016	mg/Kg			03/28/24 10:38	1
Acetone	ND		0.010	0.0017	mg/Kg			03/28/24 10:38	1
Benzene	ND		0.00025	0.00015	mg/Kg			03/28/24 10:38	1
Bromodichloromethane	ND		0.0010	0.00037	mg/Kg			03/28/24 10:38	1
Bromoform	ND		0.0010	0.00048	mg/Kg			03/28/24 10:38	1
Bromomethane	ND		0.0030	0.00080	mg/Kg			03/28/24 10:38	1
Carbon disulfide	ND		0.0020	0.00080	mg/Kg			03/28/24 10:38	1
Carbon tetrachloride	ND		0.0010	0.00038	mg/Kg			03/28/24 10:38	1
Chlorobenzene	ND		0.0010	0.00039	mg/Kg			03/28/24 10:38	1
Chloroethane	ND		0.0050	0.00050	mg/Kg			03/28/24 10:38	1
Chloroform	0.000715	J	0.0020	0.00037	mg/Kg			03/28/24 10:38	1
Chloromethane	ND		0.0050	0.00032	mg/Kg			03/28/24 10:38	1
cis-1,2-Dichloroethene	ND		0.0010	0.00041	mg/Kg			03/28/24 10:38	1
cis-1,3-Dichloropropene	ND		0.0010	0.00042	mg/Kg			03/28/24 10:38	1
Dibromochloromethane	ND		0.0010	0.00049	mg/Kg			03/28/24 10:38	1
Ethylbenzene	ND		0.00025	0.00018	mg/Kg			03/28/24 10:38	1
Methyl Ethyl Ketone	ND		0.0050	0.0021	mg/Kg			03/28/24 10:38	1
methyl isobutyl ketone	ND		0.0050	0.0022	mg/Kg			03/28/24 10:38	1
Methyl tert-butyl ether	ND		0.0010	0.00039	mg/Kg			03/28/24 10:38	1
Methylene Chloride	ND		0.0050	0.0016	mg/Kg			03/28/24 10:38	1
Styrene	ND		0.0010	0.00039	mg/Kg			03/28/24 10:38	1
Tetrachloroethene	ND		0.0010	0.00037	mg/Kg			03/28/24 10:38	1
Toluene	ND		0.00025	0.00015	mg/Kg			03/28/24 10:38	1
trans-1,2-Dichloroethene	ND		0.0010	0.00035	mg/Kg			03/28/24 10:38	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 500-760288/7
Matrix: Solid
Analysis Batch: 760288

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.0010	0.00036	mg/Kg			03/28/24 10:38	1
Trichloroethene	ND		0.00050	0.00016	mg/Kg			03/28/24 10:38	1
Vinyl chloride	ND		0.0010	0.00026	mg/Kg			03/28/24 10:38	1
Xylenes, Total	ND		0.00050	0.00022	mg/Kg			03/28/24 10:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*75 - 126*		*03/28/24 10:38*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*03/28/24 10:38*	*1*
Dibromofluoromethane	*111*		*75 - 120*		*03/28/24 10:38*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*03/28/24 10:38*	*1*

Lab Sample ID: LCS 500-760288/4
Matrix: Solid
Analysis Batch: 760288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0522		mg/Kg		104	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0361		mg/Kg		72	62 - 140
1,1,2-Trichloroethane	0.0500	0.0433		mg/Kg		87	71 - 130
1,1-Dichloroethane	0.0500	0.0429		mg/Kg		86	70 - 125
1,1-Dichloroethene	0.0500	0.0417		mg/Kg		83	67 - 122
1,2-Dichloroethane	0.0500	0.0550		mg/Kg		110	68 - 127
1,2-Dichloropropane	0.0500	0.0420		mg/Kg		84	67 - 130
2-Hexanone	0.0500	0.0393		mg/Kg		79	54 - 146
Acetone	0.0500	0.0383		mg/Kg		77	40 - 143
Benzene	0.0500	0.0391		mg/Kg		78	70 - 120
Bromodichloromethane	0.0500	0.0493		mg/Kg		99	69 - 120
Bromoform	0.0500	0.0457		mg/Kg		91	56 - 132
Bromomethane	0.0500	0.0305		mg/Kg		61	40 - 152
Carbon disulfide	0.0500	0.0347		mg/Kg		69	66 - 120
Carbon tetrachloride	0.0500	0.0559		mg/Kg		112	59 - 133
Chlorobenzene	0.0500	0.0479		mg/Kg		96	70 - 120
Chloroethane	0.0500	0.0449		mg/Kg		90	48 - 136
Chloroform	0.0500	0.0414		mg/Kg		83	70 - 120
Chloromethane	0.0500	0.0417		mg/Kg		83	56 - 152
cis-1,2-Dichloroethene	0.0500	0.0443		mg/Kg		89	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0432		mg/Kg		86	64 - 127
Dibromochloromethane	0.0500	0.0507		mg/Kg		101	68 - 125
Ethylbenzene	0.0500	0.0434		mg/Kg		87	70 - 123
Methyl Ethyl Ketone	0.0500	0.0391		mg/Kg		78	46 - 144
methyl isobutyl ketone	0.0500	0.0395		mg/Kg		79	55 - 139
Methyl tert-butyl ether	0.0500	0.0461		mg/Kg		92	55 - 123
Methylene Chloride	0.0500	0.0402		mg/Kg		80	69 - 125
Styrene	0.0500	0.0465		mg/Kg		93	70 - 120
Tetrachloroethene	0.0500	0.0490		mg/Kg		98	70 - 128
Toluene	0.0500	0.0418		mg/Kg		84	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0436		mg/Kg		87	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0444		mg/Kg		89	62 - 128

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 500-760288/4
Matrix: Solid
Analysis Batch: 760288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	0.0500	0.0524		mg/Kg		105	70 - 125
Vinyl chloride	0.0500	0.0453		mg/Kg		91	64 - 126
Xylenes, Total	0.100	0.0869		mg/Kg		87	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*120*		*75 - 126*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*
Dibromofluoromethane	*112*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-759837/1-A
Matrix: Solid
Analysis Batch: 759965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.17	0.024	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
1,2-Dichlorobenzene	ND		0.17	0.014	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
1,3-Dichlorobenzene	ND		0.17	0.015	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
1,4-Dichlorobenzene	ND		0.17	0.016	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2,2'-oxybis[1-chloropropane]	ND		0.17	0.024	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2,4,5-Trichlorophenol	ND		0.33	0.013	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2,4,6-Trichlorophenol	ND		0.33	0.011	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2,4-Dichlorophenol	ND		0.33	0.012	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2,4-Dimethylphenol	ND		0.33	0.074	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2,4-Dinitrophenol	ND		0.67	0.19	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2,4-Dinitrotoluene	ND		0.17	0.019	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2,6-Dinitrotoluene	ND		0.17	0.011	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2-Chloronaphthalene	ND		0.17	0.012	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2-Chlorophenol	ND		0.17	0.011	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2-Methylnaphthalene	ND		0.067	0.0067	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2-Methylphenol	ND		0.17	0.018	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2-Nitroaniline	ND		0.17	0.018	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
2-Nitrophenol	ND		0.33	0.023	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
3 & 4 Methylphenol	ND		0.17	0.024	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
3,3'-Dichlorobenzidine	ND		0.17	0.027	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
3-Nitroaniline	ND		0.33	0.015	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
4,6-Dinitro-2-methylphenol	ND		0.67	0.19	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
4-Bromophenyl phenyl ether	ND		0.17	0.023	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
4-Chloro-3-methylphenol	ND		0.33	0.013	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
4-Chloroaniline	ND		0.67	0.35	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
4-Chlorophenyl phenyl ether	ND		0.17	0.044	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
4-Nitroaniline	ND		0.33	0.025	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
4-Nitrophenol	ND		0.67	0.12	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Acenaphthene	ND		0.033	0.0068	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Acenaphthylene	ND		0.033	0.0056	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Anthracene	ND		0.033	0.0068	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Benzo[a]anthracene	ND		0.033	0.0070	mg/Kg		03/25/24 13:48	03/26/24 11:01	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-759837/1-A
Matrix: Solid
Analysis Batch: 759965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.033	0.032	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Benzo[b]fluoranthene	ND		0.033	0.032	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Benzo[g,h,i]perylene	ND		0.033	0.0072	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Benzo[k]fluoranthene	ND		0.033	0.013	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Bis(2-chloroethoxy)methane	ND		0.17	0.012	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Bis(2-chloroethyl)ether	ND		0.17	0.015	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Bis(2-ethylhexyl) phthalate	ND		0.17	0.13	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Butyl benzyl phthalate	ND		0.17	0.017	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Carbazole	ND		0.17	0.013	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Chrysene	ND		0.033	0.0088	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Dibenz(a,h)anthracene	ND		0.033	0.033	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Dibenzofuran	ND		0.17	0.012	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Diethyl phthalate	ND		0.17	0.015	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Dimethyl phthalate	ND		0.17	0.0072	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Di-n-butyl phthalate	ND		0.17	0.011	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Di-n-octyl phthalate	ND		0.33	0.23	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Fluoranthene	ND		0.033	0.0077	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Fluorene	ND		0.033	0.0098	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Hexachlorobenzene	ND		0.067	0.0064	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Hexachlorobutadiene	ND		0.17	0.019	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Hexachlorocyclopentadiene	ND		0.67	0.35	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Hexachloroethane	ND		0.17	0.017	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Indeno[1,2,3-cd]pyrene	ND		0.033	0.032	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Isophorone	ND		0.17	0.017	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Naphthalene	ND		0.033	0.0060	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Nitrobenzene	ND		0.033	0.011	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
N-Nitrosodi-n-propylamine	ND		0.067	0.0066	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
N-Nitrosodiphenylamine	ND		0.17	0.020	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Pentachlorophenol	ND		0.67	0.083	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Phenanthrene	ND		0.033	0.0072	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Phenol	ND		0.17	0.014	mg/Kg		03/25/24 13:48	03/26/24 11:01	1
Pyrene	ND		0.033	0.0091	mg/Kg		03/25/24 13:48	03/26/24 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*31 - 143*	*03/25/24 13:48*	*03/26/24 11:01*	*1*
2-Fluorophenol (Surr)	*85*		*31 - 166*	*03/25/24 13:48*	*03/26/24 11:01*	*1*
2-Fluorobiphenyl	*82*		*43 - 145*	*03/25/24 13:48*	*03/26/24 11:01*	*1*
2-Fluorobiphenyl (Surr)	*82*		*43 - 145*	*03/25/24 13:48*	*03/26/24 11:01*	*1*
Nitrobenzene-d5	*85*		*37 - 147*	*03/25/24 13:48*	*03/26/24 11:01*	*1*
Nitrobenzene-d5 (Surr)	*85*		*37 - 147*	*03/25/24 13:48*	*03/26/24 11:01*	*1*
Phenol-d5 (Surr)	*89*		*30 - 153*	*03/25/24 13:48*	*03/26/24 11:01*	*1*
Terphenyl-d14	*81*		*42 - 157*	*03/25/24 13:48*	*03/26/24 11:01*	*1*
Terphenyl-d14 (Surr)	*81*		*42 - 157*	*03/25/24 13:48*	*03/26/24 11:01*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-759837/2-A
Matrix: Solid
Analysis Batch: 759965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 759837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	3.33	2.67		mg/Kg		80	49 - 100
1,2-Dichlorobenzene	3.33	2.65		mg/Kg		79	47 - 94
1,3-Dichlorobenzene	3.33	2.62		mg/Kg		78	47 - 92
1,4-Dichlorobenzene	3.33	2.62		mg/Kg		79	46 - 92
2,2'-oxybis[1-chloropropane]	3.33	2.84		mg/Kg		85	43 - 111
2,4,5-Trichlorophenol	3.33	2.81		mg/Kg		84	48 - 121
2,4,6-Trichlorophenol	3.33	2.72		mg/Kg		82	50 - 121
2,4-Dichlorophenol	3.33	2.80		mg/Kg		84	51 - 109
2,4-Dimethylphenol	3.33	2.61		mg/Kg		78	48 - 93
2,4-Dinitrophenol	6.67	5.31		mg/Kg		80	10 - 130
2,4-Dinitrotoluene	3.33	3.14		mg/Kg		94	65 - 120
2,6-Dinitrotoluene	3.33	2.98		mg/Kg		89	66 - 117
2-Chloronaphthalene	3.33	2.77		mg/Kg		83	60 - 107
2-Chlorophenol	3.33	2.82		mg/Kg		84	50 - 102
2-Methylnaphthalene	3.33	2.81		mg/Kg		84	58 - 103
2-Methylphenol	3.33	2.89		mg/Kg		87	50 - 104
2-Nitroaniline	3.33	3.01		mg/Kg		90	61 - 126
2-Nitrophenol	3.33	2.73		mg/Kg		82	41 - 114
3 & 4 Methylphenol	3.33	2.86		mg/Kg		86	49 - 109
3,3'-Dichlorobenzidine	3.33	2.96		mg/Kg		89	36 - 131
3-Nitroaniline	3.33	2.88		mg/Kg		86	44 - 124
4,6-Dinitro-2-methylphenol	6.67	5.92		mg/Kg		89	36 - 138
4-Bromophenyl phenyl ether	3.33	2.88		mg/Kg		86	57 - 124
4-Chloro-3-methylphenol	3.33	3.03		mg/Kg		91	57 - 113
4-Chloroaniline	3.33	2.41		mg/Kg		72	22 - 110
4-Chlorophenyl phenyl ether	3.33	2.81		mg/Kg		84	60 - 112
4-Nitroaniline	3.33	2.95		mg/Kg		88	60 - 115
4-Nitrophenol	6.67	5.89		mg/Kg		88	45 - 126
Acenaphthene	3.33	2.80		mg/Kg		84	63 - 109
Acenaphthylene	3.33	2.85		mg/Kg		86	61 - 115
Anthracene	3.33	2.97		mg/Kg		89	68 - 120
Benzo[a]anthracene	3.33	2.99		mg/Kg		90	70 - 121
Benzo[a]pyrene	3.33	3.30		mg/Kg		99	73 - 132
Benzo[b]fluoranthene	3.33	3.17		mg/Kg		95	68 - 123
Benzo[g,h,i]perylene	3.33	3.27		mg/Kg		98	65 - 126
Benzo[k]fluoranthene	3.33	3.14		mg/Kg		94	64 - 128
Bis(2-chloroethoxy)methane	3.33	2.78		mg/Kg		83	54 - 102
Bis(2-chloroethyl)ether	3.33	2.75		mg/Kg		82	49 - 99
Bis(2-ethylhexyl) phthalate	3.33	3.32		mg/Kg		100	70 - 139
Butyl benzyl phthalate	3.33	3.27		mg/Kg		98	65 - 140
Carbazole	3.33	3.04		mg/Kg		91	68 - 120
Chrysene	3.33	3.00		mg/Kg		90	70 - 123
Dibenz(a,h)anthracene	3.33	3.30		mg/Kg		99	66 - 125
Dibenzofuran	3.33	2.78		mg/Kg		83	64 - 112
Diethyl phthalate	3.33	3.02		mg/Kg		91	66 - 115
Dimethyl phthalate	3.33	2.91		mg/Kg		87	65 - 114
Di-n-butyl phthalate	3.33	3.17		mg/Kg		95	69 - 125
Di-n-octyl phthalate	3.33	3.44		mg/Kg		103	61 - 131

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-759837/2-A
Matrix: Solid
Analysis Batch: 759965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 759837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	3.33	3.18		mg/Kg		95	66 - 123
Fluorene	3.33	2.93		mg/Kg		88	62 - 113
Hexachlorobenzene	3.33	2.95		mg/Kg		89	52 - 126
Hexachlorobutadiene	3.33	2.68		mg/Kg		80	42 - 103
Hexachlorocyclopentadiene	3.33	1.10		mg/Kg		33	10 - 100
Hexachloroethane	3.33	2.73		mg/Kg		82	45 - 95
Indeno[1,2,3-cd]pyrene	3.33	3.51		mg/Kg		105	66 - 131
Isophorone	3.33	2.78		mg/Kg		84	47 - 108
Naphthalene	3.33	2.77		mg/Kg		83	54 - 98
Nitrobenzene	3.33	2.80		mg/Kg		84	52 - 105
N-Nitrosodi-n-propylamine	3.33	3.20		mg/Kg		96	48 - 110
N-Nitrosodiphenylamine	3.33	2.92		mg/Kg		88	67 - 112
Pentachlorophenol	6.67	4.69		mg/Kg		70	32 - 128
Phenanthrene	3.33	2.97		mg/Kg		89	65 - 115
Phenol	3.33	3.09		mg/Kg		93	52 - 110
Pyrene	3.33	3.09		mg/Kg		93	71 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*90*		*31 - 143*
2-Fluorophenol (Surr)	*85*		*31 - 166*
2-Fluorobiphenyl	*80*		*43 - 145*
2-Fluorobiphenyl (Surr)	*80*		*43 - 145*
Nitrobenzene-d5	*83*		*37 - 147*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*
Phenol-d5 (Surr)	*88*		*30 - 153*
Terphenyl-d14	*76*		*42 - 157*
Terphenyl-d14 (Surr)	*76*		*42 - 157*

Lab Sample ID: MB 500-759977/1-A
Matrix: Water
Analysis Batch: 760141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.00080	0.00025	mg/L		03/26/24 09:31	03/27/24 13:31	1
Acenaphthylene	ND		0.00080	0.00021	mg/L		03/26/24 09:31	03/27/24 13:31	1
Anthracene	ND		0.00080	0.00027	mg/L		03/26/24 09:31	03/27/24 13:31	1
Benzo[a]anthracene	ND		0.00013	0.000045	mg/L		03/26/24 09:31	03/27/24 13:31	1
Benzo[a]pyrene	ND		0.00016	0.000079	mg/L		03/26/24 09:31	03/27/24 13:31	1
Benzo[b]fluoranthene	ND		0.00016	0.000065	mg/L		03/26/24 09:31	03/27/24 13:31	1
Benzo[g,h,i]perylene	ND		0.00080	0.00030	mg/L		03/26/24 09:31	03/27/24 13:31	1
Benzo[k]fluoranthene	ND		0.00016	0.000051	mg/L		03/26/24 09:31	03/27/24 13:31	1
Chrysene	ND		0.00016	0.000055	mg/L		03/26/24 09:31	03/27/24 13:31	1
Dibenz(a,h)anthracene	ND		0.00024	0.000041	mg/L		03/26/24 09:31	03/27/24 13:31	1
Fluoranthene	ND		0.00080	0.00036	mg/L		03/26/24 09:31	03/27/24 13:31	1
Fluorene	ND		0.00080	0.00020	mg/L		03/26/24 09:31	03/27/24 13:31	1
Indeno[1,2,3-cd]pyrene	ND		0.00016	0.000060	mg/L		03/26/24 09:31	03/27/24 13:31	1
Naphthalene	ND		0.00080	0.00025	mg/L		03/26/24 09:31	03/27/24 13:31	1
Phenanthrene	ND		0.00080	0.00024	mg/L		03/26/24 09:31	03/27/24 13:31	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-759977/1-A
Matrix: Water
Analysis Batch: 760141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		0.00080	0.00034	mg/L		03/26/24 09:31	03/27/24 13:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*34 - 110*	*03/26/24 09:31*	*03/27/24 13:31*	*1*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*	*03/26/24 09:31*	*03/27/24 13:31*	*1*
Terphenyl-d14 (Surr)	*90*		*40 - 145*	*03/26/24 09:31*	*03/27/24 13:31*	*1*

Lab Sample ID: LCS 500-759977/2-A
Matrix: Water
Analysis Batch: 760141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 759977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0320	0.0256		mg/L		80	46 - 110
Acenaphthylene	0.0320	0.0259		mg/L		81	47 - 113
Anthracene	0.0320	0.0286		mg/L		89	67 - 118
Benzo[a]anthracene	0.0320	0.0266		mg/L		83	70 - 126
Benzo[a]pyrene	0.0320	0.0301		mg/L		94	70 - 135
Benzo[b]fluoranthene	0.0320	0.0309		mg/L		96	69 - 136
Benzo[g,h,i]perylene	0.0320	0.0295		mg/L		92	70 - 135
Benzo[k]fluoranthene	0.0320	0.0317		mg/L		99	70 - 133
Chrysene	0.0320	0.0307		mg/L		96	68 - 129
Dibenz(a,h)anthracene	0.0320	0.0316		mg/L		99	70 - 134
Fluoranthene	0.0320	0.0265		mg/L		83	68 - 126
Fluorene	0.0320	0.0269		mg/L		84	53 - 120
Indeno[1,2,3-cd]pyrene	0.0320	0.0305		mg/L		95	65 - 133
Naphthalene	0.0320	0.0233		mg/L		73	36 - 110
Phenanthrene	0.0320	0.0276		mg/L		86	65 - 120
Pyrene	0.0320	0.0329		mg/L		103	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*34 - 110*
Nitrobenzene-d5 (Surr)	*84*		*36 - 120*
Terphenyl-d14 (Surr)	*97*		*40 - 145*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-759807/1-A
Matrix: Solid
Analysis Batch: 760340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759807

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.34	mg/Kg		03/25/24 09:47	03/27/24 16:23	1
Barium	ND		1.0	0.11	mg/Kg		03/25/24 09:47	03/27/24 16:23	1
Cadmium	ND		0.20	0.036	mg/Kg		03/25/24 09:47	03/27/24 16:23	1
Chromium	ND		1.0	0.50	mg/Kg		03/25/24 09:47	03/27/24 16:23	1
Lead	ND	^5-	0.50	0.23	mg/Kg		03/25/24 09:47	03/27/24 16:23	1
Selenium	ND	^1+	1.0	0.59	mg/Kg		03/25/24 09:47	03/27/24 16:23	1
Silver	ND		0.50	0.13	mg/Kg		03/25/24 09:47	03/27/24 16:23	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-759807/2-A
Matrix: Solid
Analysis Batch: 760340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 759807

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.28		mg/Kg		93	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Cadmium	5.00	4.47		mg/Kg		89	80 - 120
Chromium	20.0	18.6		mg/Kg		93	80 - 120
Lead	10.0	9.81	^5-	mg/Kg		98	80 - 120
Selenium	10.0	9.23	^1+	mg/Kg		92	80 - 120
Silver	5.00	4.23		mg/Kg		85	80 - 120

Lab Sample ID: MB 500-760161/1-A
Matrix: Water
Analysis Batch: 760583

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 760161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050	0.0027	mg/L		03/27/24 08:36	03/28/24 16:06	1

Lab Sample ID: LCS 500-760161/2-A
Matrix: Water
Analysis Batch: 760583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 760161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.100	0.0866		mg/L		87	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-760228/12-A
Matrix: Solid
Analysis Batch: 760426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 760228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0088	mg/Kg		03/27/24 16:30	03/28/24 10:33	1

Lab Sample ID: LCS 500-760228/13-A
Matrix: Solid
Analysis Batch: 760426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 760228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.157		mg/Kg		94	80 - 120

Lab Sample ID: 500-247959-11 MS
Matrix: Solid
Analysis Batch: 760426

Client Sample ID: B-9 (13-15')
Prep Type: Total/NA
Prep Batch: 760228

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.0932	0.110		mg/Kg	☼	118	75 - 125

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-247959-11 MSD
Matrix: Solid
Analysis Batch: 760426

Client Sample ID: B-9 (13-15')
Prep Type: Total/NA
Prep Batch: 760228

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.0929	0.110		mg/Kg	☼	118	75 - 125	0	20

Lab Sample ID: 500-247959-11 DU
Matrix: Solid
Analysis Batch: 760426

Client Sample ID: B-9 (13-15')
Prep Type: Total/NA
Prep Batch: 760228

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			0.0113	J	mg/Kg	☼			NC	20

Lab Chronicle

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-2
Date Collected: 03/21/24 09:15
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	760295	SO	EET CHI	03/27/24 14:08
Total/NA	Analysis	Moisture		1	760172	ER	EET CHI	03/27/24 09:39

Client Sample ID: B-2
Date Collected: 03/21/24 09:15
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-1
Matrix: Solid
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759691	WRE	EET CHI	03/22/24 18:13
Total/NA	Analysis	8260D		1	760100	EA	EET CHI	03/27/24 12:17
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		1	759965	JSB	EET CHI	03/26/24 13:48
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760584	SJ	EET CHI	03/28/24 14:19
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 17:12
Total/NA	Prep	7471B			760228	ER	EET CHI	03/27/24 16:30
Total/NA	Analysis	7471B		1	760426	MJG	EET CHI	03/28/24 10:37

Client Sample ID: B-3
Date Collected: 03/21/24 09:30
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	760295	SO	EET CHI	03/27/24 14:11
Total/NA	Analysis	Moisture		1	760172	ER	EET CHI	03/27/24 09:39

Client Sample ID: B-3
Date Collected: 03/21/24 09:30
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-2
Matrix: Solid
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759691	WRE	EET CHI	03/22/24 18:13
Total/NA	Analysis	8260D		1	760100	EA	EET CHI	03/27/24 12:42
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		1	759965	JSB	EET CHI	03/26/24 13:00
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760584	SJ	EET CHI	03/28/24 14:22
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 17:16
Total/NA	Prep	7471B			760228	ER	EET CHI	03/27/24 16:30
Total/NA	Analysis	7471B		1	760426	MJG	EET CHI	03/28/24 10:39

Lab Chronicle

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-4
Date Collected: 03/21/24 09:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	760295	SO	EET CHI	03/27/24 14:13
Total/NA	Analysis	Moisture		1	760172	ER	EET CHI	03/27/24 09:39

Client Sample ID: B-4
Date Collected: 03/21/24 09:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-3
Matrix: Solid
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759691	WRE	EET CHI	03/22/24 18:13
Total/NA	Analysis	8260D		1	760100	EA	EET CHI	03/27/24 13:06
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		1	759965	JSB	EET CHI	03/26/24 15:23
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760584	SJ	EET CHI	03/28/24 14:26
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 17:20
Total/NA	Prep	7471B			760228	ER	EET CHI	03/27/24 16:30
Total/NA	Analysis	7471B		1	760426	MJG	EET CHI	03/28/24 10:41

Client Sample ID: B-5
Date Collected: 03/21/24 10:15
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	760295	SO	EET CHI	03/27/24 14:16
Total/NA	Analysis	Moisture		1	760172	ER	EET CHI	03/27/24 09:39

Client Sample ID: B-5
Date Collected: 03/21/24 10:15
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-4
Matrix: Solid
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759691	WRE	EET CHI	03/22/24 18:13
Total/NA	Analysis	8260D		1	760100	EA	EET CHI	03/27/24 13:31
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		1	759965	JSB	EET CHI	03/26/24 16:10
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760584	SJ	EET CHI	03/28/24 14:29
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 17:24
Total/NA	Prep	7471B			760228	ER	EET CHI	03/27/24 16:30
Total/NA	Analysis	7471B		1	760426	MJG	EET CHI	03/28/24 10:42

Lab Chronicle

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-6
Date Collected: 03/21/24 10:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	760295	SO	EET CHI	03/27/24 14:18
Total/NA	Analysis	Moisture		1	760172	ER	EET CHI	03/27/24 09:39

Client Sample ID: B-6
Date Collected: 03/21/24 10:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-5
Matrix: Solid
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759691	WRE	EET CHI	03/22/24 18:13
Total/NA	Analysis	8260D		1	760100	EA	EET CHI	03/27/24 13:55
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		1	759965	JSB	EET CHI	03/26/24 15:47
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760584	SJ	EET CHI	03/28/24 14:41
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 17:28
Total/NA	Prep	7471B			760228	ER	EET CHI	03/27/24 16:30
Total/NA	Analysis	7471B		1	760426	MJG	EET CHI	03/28/24 10:44

Client Sample ID: B-6 (13-15')
Date Collected: 03/21/24 10:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	760172	ER	EET CHI	03/27/24 09:39

Client Sample ID: B-6 (13-15')
Date Collected: 03/21/24 10:45
Date Received: 03/22/24 14:12

Lab Sample ID: 500-247959-6
Matrix: Solid
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759691	WRE	EET CHI	03/22/24 18:13
Total/NA	Analysis	8260D		1	760100	EA	EET CHI	03/27/24 14:19
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		1	759965	JSB	EET CHI	03/26/24 13:24
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760584	SJ	EET CHI	03/28/24 14:44
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 17:32
Total/NA	Prep	7471B			760228	ER	EET CHI	03/27/24 16:30
Total/NA	Analysis	7471B		1	760426	MJG	EET CHI	03/28/24 10:46

Client Sample ID: B-3 (13-15')

Lab Sample ID: 500-247959-7

Date Collected: 03/21/24 09:30

Matrix: Solid

Date Received: 03/22/24 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	760172	ER	EET CHI	03/27/24 09:39

Client Sample ID: B-3 (13-15')

Lab Sample ID: 500-247959-7

Date Collected: 03/21/24 09:30

Matrix: Solid

Date Received: 03/22/24 14:12

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759691	WRE	EET CHI	03/22/24 18:13
Total/NA	Analysis	8260D		1	760100	EA	EET CHI	03/27/24 14:43
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		1	759965	JSB	EET CHI	03/26/24 14:35
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760584	SJ	EET CHI	03/28/24 14:47
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 17:44
Total/NA	Prep	7471B			760228	ER	EET CHI	03/27/24 16:30
Total/NA	Analysis	7471B		1	760426	MJG	EET CHI	03/28/24 10:48

Client Sample ID: B-7

Lab Sample ID: 500-247959-8

Date Collected: 03/21/24 11:30

Matrix: Solid

Date Received: 03/22/24 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	760295	SO	EET CHI	03/27/24 14:20
Total/NA	Analysis	Moisture		1	760172	ER	EET CHI	03/27/24 09:39

Client Sample ID: B-7

Lab Sample ID: 500-247959-8

Date Collected: 03/21/24 11:30

Matrix: Solid

Date Received: 03/22/24 14:12

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759682	WRE	EET CHI	03/21/24 11:30
Total/NA	Analysis	8260D		50	760288	W1T	EET CHI	03/28/24 13:52
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		1	759965	JSB	EET CHI	03/26/24 14:12
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760584	SJ	EET CHI	03/28/24 14:51
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 17:48
Total/NA	Prep	7471B			760228	ER	EET CHI	03/27/24 16:30
Total/NA	Analysis	7471B		1	760426	MJG	EET CHI	03/28/24 11:04

Client Sample ID: B-8
Lab Sample ID: 500-247959-9
Date Collected: 03/21/24 10:50
Matrix: Solid
Date Received: 03/22/24 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	760295	SO	EET CHI	03/27/24 14:22
Total/NA	Analysis	Moisture		1	760179	ER	EET CHI	03/27/24 10:05

Client Sample ID: B-8
Lab Sample ID: 500-247959-9
Date Collected: 03/21/24 10:50
Matrix: Solid
Date Received: 03/22/24 14:12
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759691	WRE	EET CHI	03/22/24 18:13
Total/NA	Analysis	8260D		1	760100	EA	EET CHI	03/27/24 15:07
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		1	759965	JSB	EET CHI	03/26/24 14:59
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760584	SJ	EET CHI	03/28/24 14:55
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 17:52
Total/NA	Prep	7471B			760228	ER	EET CHI	03/27/24 16:30
Total/NA	Analysis	7471B		1	760426	MJG	EET CHI	03/28/24 11:05

Client Sample ID: B-9
Lab Sample ID: 500-247959-10
Date Collected: 03/21/24 11:50
Matrix: Solid
Date Received: 03/22/24 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	760295	SO	EET CHI	03/27/24 14:24
Total/NA	Analysis	Moisture		1	760179	ER	EET CHI	03/27/24 10:05

Client Sample ID: B-9
Lab Sample ID: 500-247959-10
Date Collected: 03/21/24 11:50
Matrix: Solid
Date Received: 03/22/24 14:12
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759682	WRE	EET CHI	03/21/24 11:50
Total/NA	Analysis	8260D		50	760279	EA	EET CHI	03/28/24 13:29
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		1	759965	JSB	EET CHI	03/26/24 18:09
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 17:56

Client Sample ID: B-9 (13-15')
Lab Sample ID: 500-247959-11
Date Collected: 03/21/24 11:50
Matrix: Solid
Date Received: 03/22/24 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	760550	ER	EET CHI	03/29/24 07:46

Lab Chronicle

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-9 (13-15')

Lab Sample ID: 500-247959-11
Matrix: Solid
Percent Solids: 84.8

Date Collected: 03/21/24 11:50
Date Received: 03/22/24 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759691	WRE	EET CHI	03/22/24 18:13
Total/NA	Analysis	8260D		1	760100	EA	EET CHI	03/27/24 15:32
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		1	759965	JSB	EET CHI	03/26/24 16:58
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760584	SJ	EET CHI	03/28/24 14:58
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 18:01
Total/NA	Prep	7471B			760228	ER	EET CHI	03/27/24 16:30
Total/NA	Analysis	7471B		1	760426	MJG	EET CHI	03/28/24 11:07

Client Sample ID: B-10

Lab Sample ID: 500-247959-12
Matrix: Solid

Date Collected: 03/21/24 11:00
Date Received: 03/22/24 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	760295	SO	EET CHI	03/27/24 14:33
Total/NA	Analysis	Moisture		1	760179	ER	EET CHI	03/27/24 10:05

Client Sample ID: B-10

Lab Sample ID: 500-247959-12
Matrix: Solid
Percent Solids: 83.9

Date Collected: 03/21/24 11:00
Date Received: 03/22/24 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759682	WRE	EET CHI	03/21/24 11:00
Total/NA	Analysis	8260D		50	760279	EA	EET CHI	03/28/24 13:53
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		2	759965	JSB	EET CHI	03/26/24 18:33
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 18:05

Client Sample ID: B-11

Lab Sample ID: 500-247959-13
Matrix: Solid

Date Collected: 03/21/24 11:20
Date Received: 03/22/24 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9045D		1	760295	SO	EET CHI	03/27/24 14:36
Total/NA	Analysis	Moisture		1	760179	ER	EET CHI	03/27/24 10:05

Lab Chronicle

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Client Sample ID: B-11

Lab Sample ID: 500-247959-13
Date Collected: 03/21/24 11:20
Matrix: Solid
Date Received: 03/22/24 14:12
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759691	WRE	EET CHI	03/22/24 18:13
Total/NA	Analysis	8260D		1	760100	EA	EET CHI	03/27/24 15:56
Total/NA	Prep	3546			759837	NC	EET CHI	03/25/24 13:48
Total/NA	Analysis	8270E		1	759965	JSB	EET CHI	03/26/24 16:34
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760584	SJ	EET CHI	03/28/24 15:02
Total/NA	Prep	3050B			759807	BDE	EET CHI	03/25/24 09:47 - 03/25/24 15:47 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 18:09
Total/NA	Prep	7471B			760228	ER	EET CHI	03/27/24 16:30
Total/NA	Analysis	7471B		1	760426	MJG	EET CHI	03/28/24 11:14

Client Sample ID: TW-1

Lab Sample ID: 500-247959-14
Date Collected: 03/21/24 09:15
Matrix: Water
Date Received: 03/22/24 14:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	760287	W1T	EET CHI	03/28/24 11:02
Total/NA	Prep	3510C			759977	FRG	EET CHI	03/26/24 09:31
Total/NA	Analysis	8270E		1	760133	H7CM	EET CHI	03/27/24 19:28
Total/NA	Prep	3010A			760161	BDE	EET CHI	03/27/24 08:36 - 03/27/24 14:36 [1]
Total/NA	Analysis	6010D		1	760583	SJ	EET CHI	03/28/24 17:10

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 500-247959-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

Chain of Custody Record 719894

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Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Mike McGee	Site Contact: Jim Knapp	Date: 3/21	COC No: 1 of 2 COCs
Company Name: ECS Midwest	Tel/Email: MMcGee1@ecsl.com	Lab Contact:	Carrier:	Sampler:
Address: 1575 Barclay Blvd	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client / Lab Sampling
City/State/Zip: Buffalo Grove IL	TAT if different from Below: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		500-247959 COC	Job / SDG No: 500-747959
Phone				
Fax				
Project Name: Crest Hill SSI				
Site				
PO# 4545-B				

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs	SVOCs	PNAs	RCRA Metals	Lead	pH	BTEX/MTBE
1	B-2	3/21	9:15	G	S	2			X	X		X		X	
2	B-3		9:30						X	X		X		X	
3	B-4		9:45						X	X		X		X	
4	B-5		10:15						X	X		X		X	
5	B-6		10:45						X	X		X		X	
6	B-6 (13-15')		10.45						X	X		X			
7	B-3 (13-15')		9:30						X	X		X			
8	B-7		11:30						X	X		X		X	
9	B-8		10:50						X	X		X		X	
10	B-9		11.50								X		X	X	X
11	B-9 (13-15')		11 50						X	X		X			
12	B-10		11.00								X		X	X	X

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

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

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

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

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

Special Instructions/QC Requirements & Comments:

3.6-29, JOR ~~HHS~~ 48@t

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	ECS	3/21	Received by:	EETA	3/22/24 1220
Relinquished by:	EETA 3/22/24	1412	Received by:	Company	Date/Time
Relinquished by:	Company	Date/Time	Received in Laboratory by: Stephanie Hernandez	EETA	3/22/24 1412

Chain of Custody Record 719943

eurofins | Environment Testing America

Address _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Mike McGee	Site Contact:	Date: 3/21/24	COC No 2
Company Name ECS Midwest	Tel/Email MMcGee1@ecslimited.com	Lab Contact Jim Knapp	Carrier:	2 of 2 COCs
Address 1575 Barclay Blvd	Analysis Turnaround Time			Sampler
City/State/Zip Buffalo Grove IL	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone	TAT if different from Below _____			Walk-in Client
Fax	☐ 2 weeks			Lab Sampling
Project Name Crest Hill SSI	☐ 1 week			
Site	☐ 2 days			Job / SDG No
PO# 4545-B	☐ 1 day			500-247959

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs	SVOCs	PNAs	RCRA Metals	Lead	1,4 Dioxane	BTEX / MTBE	Sample Specific Notes
13	B-11	3/21	11:20	G	S	2			X	X		X		X		
14	TW-1	↓	9:15	G	GW	4					X		X		X	

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

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

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

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

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	ECS	3/21		EETA	3/22/24 1220
Relinquished by	EETA 3/22/24	1412	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by Stephanie Hernandez	Company EEIA	Date/Time 3/22/24 1412

Login Sample Receipt Checklist

Client: ECS Midwest LLC

Job Number: 500-247959-1

Login Number: 247959
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jason Warren
ECS Midwest LLC
1575 Barclay Blvd.
Buffalo Grove, Illinois 60089

Generated 3/30/2024 1:13:52 PM

JOB DESCRIPTION

Crest Hill SSI

JOB NUMBER

200-72780-1

Eurofins Burlington
530 Community Drive
Suite 11
South Burlington VT 05403

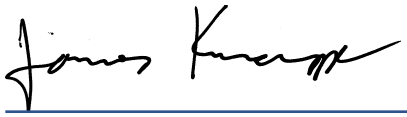
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

Table of Contents

Definitions/Glossary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 200-72780-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
200-72780-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/25/2024 1:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Air - GC/MS VOA
Method TO15: The following sample was diluted due to the abundance of non-target analytes: SG-3 (200-72780-3). A more concentrated analysis was not possible.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 200-72780-1

Client Sample ID: SG-1 — Lab Sample ID: 200-72780-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.044	J	0.12	0.038	mg/m3	10		TO-15	Total/NA
Benzene	0.0017	J	0.0064	0.0014	mg/m3	10		TO-15	Total/NA
Ethylbenzene	0.84		0.0087	0.0030	mg/m3	10		TO-15	Total/NA
Isopropylbenzene	0.0078	J	0.0098	0.0020	mg/m3	10		TO-15	Total/NA
m-Xylene & p-Xylene	2.1		0.022	0.0041	mg/m3	10		TO-15	Total/NA
o-Xylene	0.58		0.0087	0.0027	mg/m3	10		TO-15	Total/NA
Toluene	0.060		0.0075	0.0023	mg/m3	10		TO-15	Total/NA
Xylenes, Total	2.7		0.030	0.0023	mg/m3	10		TO-15	Total/NA

Client Sample ID: SG-2 — Lab Sample ID: 200-72780-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0076		0.0064	0.0014	mg/m3	10		TO-15	Total/NA
Carbon disulfide	0.014	J	0.016	0.0040	mg/m3	10		TO-15	Total/NA
Toluene	0.0077		0.0075	0.0023	mg/m3	10		TO-15	Total/NA

Client Sample ID: SG-3 — Lab Sample ID: 200-72780-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.12		0.098	0.022	mg/m3	153		TO-15	Total/NA
1,2-Dichloropropane	0.78		0.14	0.066	mg/m3	153		TO-15	Total/NA
Ethylbenzene	0.61		0.13	0.046	mg/m3	153		TO-15	Total/NA
Isopropylbenzene	0.18		0.15	0.031	mg/m3	153		TO-15	Total/NA
Toluene	0.051	J	0.12	0.036	mg/m3	153		TO-15	Total/NA

Client Sample ID: SG-4 — Lab Sample ID: 200-72780-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.055	J	0.12	0.038	mg/m3	10		TO-15	Total/NA
Benzene	0.0025	J	0.0064	0.0014	mg/m3	10		TO-15	Total/NA
m-Xylene & p-Xylene	0.0052	J	0.022	0.0041	mg/m3	10		TO-15	Total/NA
Toluene	0.0086		0.0075	0.0023	mg/m3	10		TO-15	Total/NA
Xylenes, Total	0.0052	J	0.030	0.0023	mg/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 200-72780-1

Client Sample ID: SG-1

Lab Sample ID: 200-72780-1

Date Collected: 03/21/24 12:50

Matrix: Air

Date Received: 03/25/24 13:30

Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.044**	**J**	0.12	0.038	mg/m3			03/28/24 14:07	10
Benzene	**0.0017**	**J**	0.0064	0.0014	mg/m3			03/28/24 14:07	10
Bromodichloromethane	<0.013		0.013	0.0034	mg/m3			03/28/24 14:07	10
Bromoform	<0.021		0.021	0.012	mg/m3			03/28/24 14:07	10
Bromomethane	<0.0078		0.0078	0.0028	mg/m3			03/28/24 14:07	10
1-Butanol	<0.15		0.15	0.028	mg/m3			03/28/24 14:07	10
2-Butanone (MEK)	<0.015		0.015	0.014	mg/m3			03/28/24 14:07	10
Carbon disulfide	<0.016		0.016	0.0040	mg/m3			03/28/24 14:07	10
Carbon tetrachloride	<0.013		0.013	0.0014	mg/m3			03/28/24 14:07	10
Chlorobenzene	<0.0092		0.0092	0.0020	mg/m3			03/28/24 14:07	10
Chloroform	<0.0098		0.0098	0.0020	mg/m3			03/28/24 14:07	10
cis-1,2-Dichloroethene	<0.0079		0.0079	0.00083	mg/m3			03/28/24 14:07	10
cis-1,3-Dichloropropene	<0.0091		0.0091	0.0020	mg/m3			03/28/24 14:07	10
Dibromochloromethane	<0.017		0.017	0.0054	mg/m3			03/28/24 14:07	10
1,2-Dibromoethane (EDB)	<0.015		0.015	0.0032	mg/m3			03/28/24 14:07	10
1,2-Dichlorobenzene	<0.012		0.012	0.0040	mg/m3			03/28/24 14:07	10
1,4-Dichlorobenzene	<0.012		0.012	0.0054	mg/m3			03/28/24 14:07	10
Dichlorodifluoromethane	<0.025		0.025	0.0054	mg/m3			03/28/24 14:07	10
1,1-Dichloroethane	<0.0081		0.0081	0.0010	mg/m3			03/28/24 14:07	10
1,2-Dichloroethane	<0.0081		0.0081	0.0038	mg/m3			03/28/24 14:07	10
1,1-Dichloroethene	<0.0079		0.0079	0.0010	mg/m3			03/28/24 14:07	10
1,2-Dichloropropane	<0.0092		0.0092	0.0043	mg/m3			03/28/24 14:07	10
1,4-Dioxane	<0.18		0.18	0.0030	mg/m3			03/28/24 14:07	10
Ethylbenzene	**0.84**		0.0087	0.0030	mg/m3			03/28/24 14:07	10
Isopropylbenzene	**0.0078**	**J**	0.0098	0.0020	mg/m3			03/28/24 14:07	10
Methylene Chloride	<0.017		0.017	0.0063	mg/m3			03/28/24 14:07	10
Methyl tert-butyl ether	<0.0072		0.0072	0.0013	mg/m3			03/28/24 14:07	10
m-Xylene & p-Xylene	**2.1**		0.022	0.0041	mg/m3			03/28/24 14:07	10
Naphthalene	<0.026		0.026	0.016	mg/m3			03/28/24 14:07	10
o-Xylene	**0.58**		0.0087	0.0027	mg/m3			03/28/24 14:07	10
Styrene	<0.0085		0.0085	0.0025	mg/m3			03/28/24 14:07	10
Tetrachloroethene	<0.014		0.014	0.0014	mg/m3			03/28/24 14:07	10
Toluene	**0.060**		0.0075	0.0023	mg/m3			03/28/24 14:07	10
trans-1,2-Dichloroethene	<0.0079		0.0079	0.00091	mg/m3			03/28/24 14:07	10
trans-1,3-Dichloropropene	<0.0091		0.0091	0.0025	mg/m3			03/28/24 14:07	10
1,2,4-Trichlorobenzene	<0.037		0.037	0.024	mg/m3			03/28/24 14:07	10
1,1,1-Trichloroethane	<0.011		0.011	0.0024	mg/m3			03/28/24 14:07	10
1,1,2-Trichloroethane	<0.011		0.011	0.0040	mg/m3			03/28/24 14:07	10
Trichloroethene	<0.011		0.011	0.0013	mg/m3			03/28/24 14:07	10
Trichlorofluoromethane	<0.011		0.011	0.0028	mg/m3			03/28/24 14:07	10
Vinyl chloride	<0.0051		0.0051	0.00054	mg/m3			03/28/24 14:07	10
Xylenes, Total	**2.7**		0.030	0.0023	mg/m3			03/28/24 14:07	10

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 200-72780-1

Client Sample ID: SG-2

Date Collected: 03/21/24 12:55
Date Received: 03/25/24 13:30
Sample Container: Summa Canister 1L

Lab Sample ID: 200-72780-2

Matrix: Air

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.12		0.12	0.038	mg/m3			03/28/24 14:59	10
Benzene	**0.0076**		0.0064	0.0014	mg/m3			03/28/24 14:59	10
Bromodichloromethane	<0.013		0.013	0.0034	mg/m3			03/28/24 14:59	10
Bromoform	<0.021		0.021	0.012	mg/m3			03/28/24 14:59	10
Bromomethane	<0.0078		0.0078	0.0028	mg/m3			03/28/24 14:59	10
1-Butanol	<0.15		0.15	0.028	mg/m3			03/28/24 14:59	10
2-Butanone (MEK)	<0.015		0.015	0.014	mg/m3			03/28/24 14:59	10
Carbon disulfide	**0.014**	**J**	0.016	0.0040	mg/m3			03/28/24 14:59	10
Carbon tetrachloride	<0.013		0.013	0.0014	mg/m3			03/28/24 14:59	10
Chlorobenzene	<0.0092		0.0092	0.0020	mg/m3			03/28/24 14:59	10
Chloroform	<0.0098		0.0098	0.0020	mg/m3			03/28/24 14:59	10
cis-1,2-Dichloroethene	<0.0079		0.0079	0.00083	mg/m3			03/28/24 14:59	10
cis-1,3-Dichloropropene	<0.0091		0.0091	0.0020	mg/m3			03/28/24 14:59	10
Dibromochloromethane	<0.017		0.017	0.0054	mg/m3			03/28/24 14:59	10
1,2-Dibromoethane (EDB)	<0.015		0.015	0.0032	mg/m3			03/28/24 14:59	10
1,2-Dichlorobenzene	<0.012		0.012	0.0040	mg/m3			03/28/24 14:59	10
1,4-Dichlorobenzene	<0.012		0.012	0.0054	mg/m3			03/28/24 14:59	10
Dichlorodifluoromethane	<0.025		0.025	0.0054	mg/m3			03/28/24 14:59	10
1,1-Dichloroethane	<0.0081		0.0081	0.0010	mg/m3			03/28/24 14:59	10
1,2-Dichloroethane	<0.0081		0.0081	0.0038	mg/m3			03/28/24 14:59	10
1,1-Dichloroethene	<0.0079		0.0079	0.0010	mg/m3			03/28/24 14:59	10
1,2-Dichloropropane	<0.0092		0.0092	0.0043	mg/m3			03/28/24 14:59	10
1,4-Dioxane	<0.18		0.18	0.0030	mg/m3			03/28/24 14:59	10
Ethylbenzene	<0.0087		0.0087	0.0030	mg/m3			03/28/24 14:59	10
Isopropylbenzene	<0.0098		0.0098	0.0020	mg/m3			03/28/24 14:59	10
Methylene Chloride	<0.017		0.017	0.0063	mg/m3			03/28/24 14:59	10
Methyl tert-butyl ether	<0.0072		0.0072	0.0013	mg/m3			03/28/24 14:59	10
m-Xylene & p-Xylene	<0.022		0.022	0.0041	mg/m3			03/28/24 14:59	10
Naphthalene	<0.026		0.026	0.016	mg/m3			03/28/24 14:59	10
o-Xylene	<0.0087		0.0087	0.0027	mg/m3			03/28/24 14:59	10
Styrene	<0.0085		0.0085	0.0025	mg/m3			03/28/24 14:59	10
Tetrachloroethene	<0.014		0.014	0.0014	mg/m3			03/28/24 14:59	10
Toluene	**0.0077**		0.0075	0.0023	mg/m3			03/28/24 14:59	10
trans-1,2-Dichloroethene	<0.0079		0.0079	0.00091	mg/m3			03/28/24 14:59	10
trans-1,3-Dichloropropene	<0.0091		0.0091	0.0025	mg/m3			03/28/24 14:59	10
1,2,4-Trichlorobenzene	<0.037		0.037	0.024	mg/m3			03/28/24 14:59	10
1,1,1-Trichloroethane	<0.011		0.011	0.0024	mg/m3			03/28/24 14:59	10
1,1,2-Trichloroethane	<0.011		0.011	0.0040	mg/m3			03/28/24 14:59	10
Trichloroethene	<0.011		0.011	0.0013	mg/m3			03/28/24 14:59	10
Trichlorofluoromethane	<0.011		0.011	0.0028	mg/m3			03/28/24 14:59	10
Vinyl chloride	<0.0051		0.0051	0.00054	mg/m3			03/28/24 14:59	10
Xylenes, Total	<0.030		0.030	0.0023	mg/m3			03/28/24 14:59	10

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 200-72780-1

Client Sample ID: SG-3

Lab Sample ID: 200-72780-3

Date Collected: 03/21/24 13:00
Matrix: Air
Date Received: 03/25/24 13:30
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.8		1.8	0.58	mg/m3			03/28/24 15:51	153
Benzene	**0.12**		0.098	0.022	mg/m3			03/28/24 15:51	153
Bromodichloromethane	<0.21		0.21	0.051	mg/m3			03/28/24 15:51	153
Bromoform	<0.32		0.32	0.19	mg/m3			03/28/24 15:51	153
Bromomethane	<0.12		0.12	0.042	mg/m3			03/28/24 15:51	153
1-Butanol	<2.3		2.3	0.43	mg/m3			03/28/24 15:51	153
2-Butanone (MEK)	<0.23		0.23	0.22	mg/m3			03/28/24 15:51	153
Carbon disulfide	<0.24		0.24	0.062	mg/m3			03/28/24 15:51	153
Carbon tetrachloride	<0.19		0.19	0.021	mg/m3			03/28/24 15:51	153
Chlorobenzene	<0.14		0.14	0.031	mg/m3			03/28/24 15:51	153
Chloroform	<0.15		0.15	0.031	mg/m3			03/28/24 15:51	153
cis-1,2-Dichloroethene	<0.12		0.12	0.013	mg/m3			03/28/24 15:51	153
cis-1,3-Dichloropropene	<0.14		0.14	0.031	mg/m3			03/28/24 15:51	153
Dibromochloromethane	<0.26		0.26	0.082	mg/m3			03/28/24 15:51	153
1,2-Dibromoethane (EDB)	<0.24		0.24	0.049	mg/m3			03/28/24 15:51	153
1,2-Dichlorobenzene	<0.18		0.18	0.061	mg/m3			03/28/24 15:51	153
1,4-Dichlorobenzene	<0.18		0.18	0.082	mg/m3			03/28/24 15:51	153
Dichlorodifluoromethane	<0.38		0.38	0.083	mg/m3			03/28/24 15:51	153
1,1-Dichloroethane	<0.12		0.12	0.015	mg/m3			03/28/24 15:51	153
1,2-Dichloroethane	<0.12		0.12	0.058	mg/m3			03/28/24 15:51	153
1,1-Dichloroethene	<0.12		0.12	0.016	mg/m3			03/28/24 15:51	153
1,2-Dichloropropane	**0.78**		0.14	0.066	mg/m3			03/28/24 15:51	153
1,4-Dioxane	<2.8		2.8	0.045	mg/m3			03/28/24 15:51	153
Ethylbenzene	**0.61**		0.13	0.046	mg/m3			03/28/24 15:51	153
Isopropylbenzene	**0.18**		0.15	0.031	mg/m3			03/28/24 15:51	153
Methylene Chloride	<0.27		0.27	0.096	mg/m3			03/28/24 15:51	153
Methyl tert-butyl ether	<0.11		0.11	0.020	mg/m3			03/28/24 15:51	153
m-Xylene & p-Xylene	<0.33		0.33	0.063	mg/m3			03/28/24 15:51	153
Naphthalene	<0.40		0.40	0.24	mg/m3			03/28/24 15:51	153
o-Xylene	<0.13		0.13	0.042	mg/m3			03/28/24 15:51	153
Styrene	<0.13		0.13	0.038	mg/m3			03/28/24 15:51	153
Tetrachloroethene	<0.21		0.21	0.022	mg/m3			03/28/24 15:51	153
Toluene	**0.051**	**J**	0.12	0.036	mg/m3			03/28/24 15:51	153
trans-1,2-Dichloroethene	<0.12		0.12	0.014	mg/m3			03/28/24 15:51	153
trans-1,3-Dichloropropene	<0.14		0.14	0.037	mg/m3			03/28/24 15:51	153
1,2,4-Trichlorobenzene	<0.57		0.57	0.37	mg/m3			03/28/24 15:51	153
1,1,1-Trichloroethane	<0.17		0.17	0.037	mg/m3			03/28/24 15:51	153
1,1,2-Trichloroethane	<0.17		0.17	0.062	mg/m3			03/28/24 15:51	153
Trichloroethene	<0.16		0.16	0.021	mg/m3			03/28/24 15:51	153
Trichlorofluoromethane	<0.17		0.17	0.043	mg/m3			03/28/24 15:51	153
Vinyl chloride	<0.078		0.078	0.0082	mg/m3			03/28/24 15:51	153
Xylenes, Total	<0.47		0.47	0.035	mg/m3			03/28/24 15:51	153

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 200-72780-1

Client Sample ID: SG-4

Lab Sample ID: 200-72780-4

Date Collected: 03/21/24 13:05
Matrix: Air
Date Received: 03/25/24 13:30
Sample Container: Summa Canister 1L

Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.055**	**J**	0.12	0.038	mg/m3			03/28/24 16:43	10
Benzene	**0.0025**	**J**	0.0064	0.0014	mg/m3			03/28/24 16:43	10
Bromodichloromethane	<0.013		0.013	0.0034	mg/m3			03/28/24 16:43	10
Bromoform	<0.021		0.021	0.012	mg/m3			03/28/24 16:43	10
Bromomethane	<0.0078		0.0078	0.0028	mg/m3			03/28/24 16:43	10
1-Butanol	<0.15		0.15	0.028	mg/m3			03/28/24 16:43	10
2-Butanone (MEK)	<0.015		0.015	0.014	mg/m3			03/28/24 16:43	10
Carbon disulfide	<0.016		0.016	0.0040	mg/m3			03/28/24 16:43	10
Carbon tetrachloride	<0.013		0.013	0.0014	mg/m3			03/28/24 16:43	10
Chlorobenzene	<0.0092		0.0092	0.0020	mg/m3			03/28/24 16:43	10
Chloroform	<0.0098		0.0098	0.0020	mg/m3			03/28/24 16:43	10
cis-1,2-Dichloroethene	<0.0079		0.0079	0.00083	mg/m3			03/28/24 16:43	10
cis-1,3-Dichloropropene	<0.0091		0.0091	0.0020	mg/m3			03/28/24 16:43	10
Dibromochloromethane	<0.017		0.017	0.0054	mg/m3			03/28/24 16:43	10
1,2-Dibromoethane (EDB)	<0.015		0.015	0.0032	mg/m3			03/28/24 16:43	10
1,2-Dichlorobenzene	<0.012		0.012	0.0040	mg/m3			03/28/24 16:43	10
1,4-Dichlorobenzene	<0.012		0.012	0.0054	mg/m3			03/28/24 16:43	10
Dichlorodifluoromethane	<0.025		0.025	0.0054	mg/m3			03/28/24 16:43	10
1,1-Dichloroethane	<0.0081		0.0081	0.0010	mg/m3			03/28/24 16:43	10
1,2-Dichloroethane	<0.0081		0.0081	0.0038	mg/m3			03/28/24 16:43	10
1,1-Dichloroethene	<0.0079		0.0079	0.0010	mg/m3			03/28/24 16:43	10
1,2-Dichloropropane	<0.0092		0.0092	0.0043	mg/m3			03/28/24 16:43	10
1,4-Dioxane	<0.18		0.18	0.0030	mg/m3			03/28/24 16:43	10
Ethylbenzene	<0.0087		0.0087	0.0030	mg/m3			03/28/24 16:43	10
Isopropylbenzene	<0.0098		0.0098	0.0020	mg/m3			03/28/24 16:43	10
Methylene Chloride	<0.017		0.017	0.0063	mg/m3			03/28/24 16:43	10
Methyl tert-butyl ether	<0.0072		0.0072	0.0013	mg/m3			03/28/24 16:43	10
m-Xylene & p-Xylene	**0.0052**	**J**	0.022	0.0041	mg/m3			03/28/24 16:43	10
Naphthalene	<0.026		0.026	0.016	mg/m3			03/28/24 16:43	10
o-Xylene	<0.0087		0.0087	0.0027	mg/m3			03/28/24 16:43	10
Styrene	<0.0085		0.0085	0.0025	mg/m3			03/28/24 16:43	10
Tetrachloroethene	<0.014		0.014	0.0014	mg/m3			03/28/24 16:43	10
Toluene	**0.0086**		0.0075	0.0023	mg/m3			03/28/24 16:43	10
trans-1,2-Dichloroethene	<0.0079		0.0079	0.00091	mg/m3			03/28/24 16:43	10
trans-1,3-Dichloropropene	<0.0091		0.0091	0.0025	mg/m3			03/28/24 16:43	10
1,2,4-Trichlorobenzene	<0.037		0.037	0.024	mg/m3			03/28/24 16:43	10
1,1,1-Trichloroethane	<0.011		0.011	0.0024	mg/m3			03/28/24 16:43	10
1,1,2-Trichloroethane	<0.011		0.011	0.0040	mg/m3			03/28/24 16:43	10
Trichloroethene	<0.011		0.011	0.0013	mg/m3			03/28/24 16:43	10
Trichlorofluoromethane	<0.011		0.011	0.0028	mg/m3			03/28/24 16:43	10
Vinyl chloride	<0.0051		0.0051	0.00054	mg/m3			03/28/24 16:43	10
Xylenes, Total	**0.0052**	**J**	0.030	0.0023	mg/m3			03/28/24 16:43	10

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-202424/4
Matrix: Air
Analysis Batch: 202424

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.012		0.012	0.0038	mg/m3			03/28/24 12:23	1
Benzene	<0.00064		0.00064	0.00014	mg/m3			03/28/24 12:23	1
Bromodichloromethane	<0.0013		0.0013	0.00034	mg/m3			03/28/24 12:23	1
Bromoform	<0.0021		0.0021	0.0012	mg/m3			03/28/24 12:23	1
Bromomethane	<0.00078		0.00078	0.00028	mg/m3			03/28/24 12:23	1
1-Butanol	<0.015		0.015	0.0028	mg/m3			03/28/24 12:23	1
2-Butanone (MEK)	<0.0015		0.0015	0.0014	mg/m3			03/28/24 12:23	1
Carbon disulfide	<0.0016		0.0016	0.00040	mg/m3			03/28/24 12:23	1
Carbon tetrachloride	<0.0013		0.0013	0.00014	mg/m3			03/28/24 12:23	1
Chlorobenzene	<0.00092		0.00092	0.00020	mg/m3			03/28/24 12:23	1
Chloroform	<0.00098		0.00098	0.00020	mg/m3			03/28/24 12:23	1
cis-1,2-Dichloroethene	<0.00079		0.00079	0.000083	mg/m3			03/28/24 12:23	1
cis-1,3-Dichloropropene	<0.00091		0.00091	0.00020	mg/m3			03/28/24 12:23	1
Dibromochloromethane	<0.0017		0.0017	0.00054	mg/m3			03/28/24 12:23	1
1,2-Dibromoethane (EDB)	<0.0015		0.0015	0.00032	mg/m3			03/28/24 12:23	1
1,2-Dichlorobenzene	<0.0012		0.0012	0.00040	mg/m3			03/28/24 12:23	1
1,4-Dichlorobenzene	<0.0012		0.0012	0.00054	mg/m3			03/28/24 12:23	1
Dichlorodifluoromethane	<0.0025		0.0025	0.00054	mg/m3			03/28/24 12:23	1
1,1-Dichloroethane	<0.00081		0.00081	0.00010	mg/m3			03/28/24 12:23	1
1,2-Dichloroethane	<0.00081		0.00081	0.00038	mg/m3			03/28/24 12:23	1
1,1-Dichloroethene	<0.00079		0.00079	0.00010	mg/m3			03/28/24 12:23	1
1,2-Dichloropropane	<0.00092		0.00092	0.00043	mg/m3			03/28/24 12:23	1
1,4-Dioxane	<0.018		0.018	0.00030	mg/m3			03/28/24 12:23	1
Ethylbenzene	<0.00087		0.00087	0.00030	mg/m3			03/28/24 12:23	1
Isopropylbenzene	<0.00098		0.00098	0.00020	mg/m3			03/28/24 12:23	1
Methylene Chloride	<0.0017		0.0017	0.00063	mg/m3			03/28/24 12:23	1
Methyl tert-butyl ether	<0.00072		0.00072	0.00013	mg/m3			03/28/24 12:23	1
m-Xylene & p-Xylene	<0.0022		0.0022	0.00041	mg/m3			03/28/24 12:23	1
Naphthalene	<0.0026		0.0026	0.0016	mg/m3			03/28/24 12:23	1
o-Xylene	<0.00087		0.00087	0.00027	mg/m3			03/28/24 12:23	1
Styrene	<0.00085		0.00085	0.00025	mg/m3			03/28/24 12:23	1
Tetrachloroethene	<0.0014		0.0014	0.00014	mg/m3			03/28/24 12:23	1
Toluene	<0.00075		0.00075	0.00023	mg/m3			03/28/24 12:23	1
trans-1,2-Dichloroethene	<0.00079		0.00079	0.000091	mg/m3			03/28/24 12:23	1
trans-1,3-Dichloropropene	<0.00091		0.00091	0.00025	mg/m3			03/28/24 12:23	1
1,2,4-Trichlorobenzene	<0.0037		0.0037	0.0024	mg/m3			03/28/24 12:23	1
1,1,1-Trichloroethane	<0.0011		0.0011	0.00024	mg/m3			03/28/24 12:23	1
1,1,2-Trichloroethane	<0.0011		0.0011	0.00040	mg/m3			03/28/24 12:23	1
Trichloroethene	<0.0011		0.0011	0.00013	mg/m3			03/28/24 12:23	1
Trichlorofluoromethane	<0.0011		0.0011	0.00028	mg/m3			03/28/24 12:23	1
Vinyl chloride	<0.00051		0.00051	0.000054	mg/m3			03/28/24 12:23	1
Xylenes, Total	<0.0030		0.0030	0.00023	mg/m3			03/28/24 12:23	1

Lab Sample ID: LCS 200-202424/3
Matrix: Air
Analysis Batch: 202424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			0.0237	0.0188		mg/m3		79	54 - 154		

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-202424/3
Matrix: Air
Analysis Batch: 202424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0319	0.0266		mg/m3		83	73 - 119
Bromodichloromethane	0.0670	0.0577		mg/m3		86	75 - 127
Bromoform	0.103	0.0778		mg/m3		75	53 - 149
Bromomethane	0.0388	0.0330		mg/m3		85	72 - 124
1-Butanol	0.0303	0.0225		mg/m3		74	50 - 156
2-Butanone (MEK)	0.0295	0.0242		mg/m3		82	72 - 124
Carbon disulfide	0.0311	0.0249		mg/m3		80	71 - 138
Carbon tetrachloride	0.0629	0.0561		mg/m3		89	71 - 133
Chlorobenzene	0.0460	0.0397		mg/m3		86	76 - 119
Chloroform	0.0488	0.0392		mg/m3		80	73 - 124
cis-1,2-Dichloroethene	0.0396	0.0318		mg/m3		80	72 - 121
cis-1,3-Dichloropropene	0.0454	0.0408		mg/m3		90	74 - 125
Dibromochloromethane	0.0852	0.0715		mg/m3		84	73 - 125
1,2-Dibromoethane (EDB)	0.0768	0.0664		mg/m3		86	78 - 122
1,2-Dichlorobenzene	0.0601	0.0544		mg/m3		90	68 - 129
1,4-Dichlorobenzene	0.0601	0.0558		mg/m3		93	67 - 132
Dichlorodifluoromethane	0.0494	0.0404		mg/m3		82	61 - 142
1,1-Dichloroethane	0.0405	0.0304		mg/m3		75	66 - 130
1,2-Dichloroethane	0.0405	0.0334		mg/m3		83	68 - 135
1,1-Dichloroethene	0.0396	0.0312		mg/m3		79	68 - 120
1,2-Dichloropropane	0.0462	0.0367		mg/m3		80	69 - 128
1,4-Dioxane	0.0360	0.0295		mg/m3		82	66 - 129
Ethylbenzene	0.0434	0.0366		mg/m3		84	74 - 122
Isopropylbenzene	0.0491	0.0434		mg/m3		88	73 - 123
Methylene Chloride	0.0347	0.0304		mg/m3		87	59 - 137
Methyl tert-butyl ether	0.0360	0.0296		mg/m3		82	70 - 127
m-Xylene & p-Xylene	0.0868	0.0745		mg/m3		86	76 - 121
Naphthalene	0.0524	0.0460		mg/m3		88	50 - 150
o-Xylene	0.0434	0.0376		mg/m3		87	73 - 123
Styrene	0.0426	0.0382		mg/m3		90	74 - 125
Tetrachloroethene	0.0678	0.0601		mg/m3		89	70 - 125
Toluene	0.0377	0.0314		mg/m3		83	75 - 122
trans-1,2-Dichloroethene	0.0396	0.0302		mg/m3		76	69 - 137
trans-1,3-Dichloropropene	0.0454	0.0387		mg/m3		85	74 - 128
1,2,4-Trichlorobenzene	0.0742	0.0707		mg/m3		95	50 - 150
1,1,1-Trichloroethane	0.0546	0.0471		mg/m3		86	72 - 127
1,1,2-Trichloroethane	0.0546	0.0446		mg/m3		82	75 - 126
Trichloroethene	0.0537	0.0460		mg/m3		86	73 - 122
Trichlorofluoromethane	0.0562	0.0467		mg/m3		83	70 - 129
Vinyl chloride	0.0256	0.0201		mg/m3		78	61 - 135
Xylenes, Total	0.130	0.112		mg/m3		86	75 - 122

QC Association Summary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 200-72780-1

Air - GC/MS VOA

Analysis Batch: 202424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-72780-1	SG-1	Total/NA	Air	TO-15	
200-72780-2	SG-2	Total/NA	Air	TO-15	
200-72780-3	SG-3	Total/NA	Air	TO-15	
200-72780-4	SG-4	Total/NA	Air	TO-15	
MB 200-202424/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-202424/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 200-72780-1

Client Sample ID: SG-1
Date Collected: 03/21/24 12:50
Date Received: 03/25/24 13:30

Lab Sample ID: 200-72780-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	202424	A1B	EET BUR	03/28/24 14:07

Client Sample ID: SG-2
Date Collected: 03/21/24 12:55
Date Received: 03/25/24 13:30

Lab Sample ID: 200-72780-2
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	202424	A1B	EET BUR	03/28/24 14:59

Client Sample ID: SG-3
Date Collected: 03/21/24 13:00
Date Received: 03/25/24 13:30

Lab Sample ID: 200-72780-3
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		153	202424	A1B	EET BUR	03/28/24 15:51

Client Sample ID: SG-4
Date Collected: 03/21/24 13:05
Date Received: 03/25/24 13:30

Lab Sample ID: 200-72780-4
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	202424	A1B	EET BUR	03/28/24 16:43

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 200-72780-1

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-26
Connecticut	State	PH-0751	09-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-18-24
Florida	NELAP	E87467	06-30-24
Minnesota	NELAP	050-999-436	12-31-24
New Hampshire	NELAP	2006	12-18-24
New Jersey	NELAP	VT972	06-30-24
New York	NELAP	10391	03-31-24
Pennsylvania	NELAP	68-00489	04-30-24
Rhode Island	State	LAO00298	12-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00272	12-19-26
Vermont	State	VT4000	02-10-25
Virginia	NELAP	460209	12-14-24
Wisconsin	State	399140830	08-31-24

Method Summary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 200-72780-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job ID: 200-72780-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-72780-1	SG-1	Air	03/21/24 12:50	03/25/24 13:30	Air Canister (1-Liter) #4672
200-72780-2	SG-2	Air	03/21/24 12:55	03/25/24 13:30	Air Canister (1-Liter) #5917
200-72780-3	SG-3	Air	03/21/24 13:00	03/25/24 13:30	Air Canister (1-Liter) #4842
200-72780-4	SG-4	Air	03/21/24 13:05	03/25/24 13:30	Air Canister (1-Liter) #34000964

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
200-72780	03/27/24	8:39	29.7	22	G33	JR

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	Yes		
(2) Is the flow controller ID used for each canister recorded?	Yes		
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers		No	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		No	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Check[4] Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-72780-A-1	4672	0.0	N	5321	101/23	Y	5854-59029	200ml/min FC
200-72780-A-2	5917	0.0	N	6375	101/23	Y	6920-59029	200ml/min FC
200-72780-A-3	4842	0.0	N	4706	101/23	Y	4668-59120	200ml/min FC
200-72780-A-4	34000964	0.0	N	6613	101/23	Y	5854-59029	200ml/min FC

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

[2] If return pressure is not within criteria, initiate Non-Conformance Memo.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

[4] Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

Eurofins TestAmerica, Burlington
530 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802 660.1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples

200-72780 Chain of Custody

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact Information	**Client Project Manager:** Mike McGee	**Samples Collected By:**
Company Name: ECS Midwest	**Phone:**	
Address: 1575 Barclay Blvd	**Email:** MMcGee1@ecsmidwestlimited.com	
City/State/Zip: Buffalo Grove, IL	**Site Contact:** Jim Knapp	
Phone:	**Tel/Fax**	
FAX:	**Analysis Turnaround Time**	
Project Name: Former Crest Hill SSI	Standard (Specific):	
Site/Location	Rush (Specify):	
P O # 4545-B		

COC No: ____ of ____ COCs

TALS Project #:

For Lab Use Only:
Walk-in Client:
Lab Sampling:

Job / SDG No.:

(See below for Add'l Items)

Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SG-1	3/21	12:45	3/21	12:50	-27.5	-3.0	5321	4672	X														
SG-2	↓	12:50	↓	12:55	-28.0	-0.5	0375	5917	X														
SG-3	↓	12:55	↓	1:00	-28.5	-1.0	4706	4842	X														
SG-4	↓	1:00	↓	1:05	-30.0	-0.5	0013	04000464	X														

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Pressure (inches of Hg)			
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	**Date / Time:** 3/21/24	**Samples Received by:** 3/22/24 1220
Samples Relinquished by:	**Date / Time:** 3/22/24 1412	**Received by:** 3/28/24
Relinquished by:	**Date / Time:**	**Received by:**

Lab Use Only: **Shipper Name:** **Opened by:** **Condition:**

3/30/2024

ORIGIN ID:JOTA (708) 534-5200
SAMPLE LOGIN
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE: 22MAR24
ACTWGT: 7.00 LB MAN
CAD: 0675858/CAFE3755

BILL RECIPIENT

TO SAMPLE RECEIPT
EUROFINS – BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660 – 1990
REF: ECS SH

FedEx Express

1 of 2

TRK# 0201 7051 7619 1039

MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT – US BTV

ORIGIN ID:JOTA (708) 534-5200
SAMPLE LOGIN
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK, IL 60484
UNITED STATES US

SHIP DATE: 22MAR24
ACTWGT: 12.00 LB MAN
CAD: 0675858/CAFE3755

BILL RECIPIENT

TO SAMPLE RECEIPT
EUROFINS – BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660 – 1990
REF: ECS SH

FedEx Express

2 of 2

MPS# 0263 7051 7619 1040

Mstr# 7051 7619 1039

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT – US BTV

Login Sample Receipt Checklist

Client: ECS Midwest LLC

Job Number: 200-72780-1

Login Number: 72780
List Number: 1
Creator: Reynolds, Jamie K

List Source: Eurofins Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	2370716, 2370717
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 1/2	250	300	2/7/2024	1535	21	21	SML	1 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	4955	.08	108	0	30.1	G26	2/8/24	1038	KB	21	G26	2/20/24	1401	✓	22.0
2	6456	.08	108	0		G26					G26				
3	4658	.08	108	0		G26					G26				
4	5917	.08	108	0		G26					G26				
5	6426	.08	108	0		G26					G26				
6	6323		108	0		G26					G26				
7	6832		108	0		G26					G26				
8	6948		108	0		G26					G26				
9	6303		108	0		G26					G26				
10	34000322		108	0		G26					G26				
11	34000685		108	0		G26					G26				
12	6920	.08	108	0		G26	2/20/24	1401	✓	22.0	G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
6920	2/13/24	59029	KP1			XXXXXXX			2/13/24	CC

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 3/4	10	32	2/9/2024	1316	22	22	SML	1 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	6836	-.03	.03	0	-29.8	G26	2/10/24	1246	[illegible]	22.0	G26	2/21/24	1525	[illegible]	22.0
2	5854	.03	.03	0		G26	2/21/24	1520	[illegible]	22.0	G26				
3	34000964	-.03	.03	0		G26	2/10/24	1246	[illegible]	22.0	G26				
4	4672		.03	0		G26					G26				
5	34001794		.03	0		G26					G26				
6	34001633		.03	0		G26					G26				
7	6947		.03	0		G26					G26				
8	6469		.03	0		G26					G26				
9	34000658		.03	0		G26					G26				
10	34001113		.03	0		G26					G26				
11	6494		.03	0		G26					G26				
12	34002425		.03	0		G26					G26				

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Review
5854	2/13/24	59029	KP1			XXXXXX			2/13/24	CC

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s):		Technician	Can Size	Certification Type:
Oven 3/4	10	32	2/17/2024	1209	22	22	SML	1 liter	batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	5937	-.03	-03	0	-29.1	G26	2/18/24	1142	S—	22.0	G26	2/28/24	1421	—	22.0
2	5972		-03	0		G26					G26				
3	4653		-03	0		G26					G26				
4	5925		-03	0		G26					G26				
5	6352		-03	0		G26					G26				
6	34001136		-03	0		G26					G26				
7	6780		-03	0		G26					G26				
8	7743		-03	0		G26					G26				
9	6813	—	-03	0		G26	—	—	—	—	G26	—	—	—	—
10	4668	-03	-03	0		G26	2/28/24	1421	—	22.0	G26				
11	4842	-.03	-03	0		G26	2/18/24	1142	—	22.0	G26				
12	34001107	—	-03	0	—	G26	—	—	—	—	G26	—	—	—	—

NSVI

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☒ TO15 Routine ☐ TO15 LL

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Revie
4668	2/20/24	59120	AB1			XXXXXX			2/20/24	DMB

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-72031-1

SDG No.:

Client Sample ID: 6920 Lab Sample ID: 200-72031-12

Matrix: Air Lab File ID: 59029-06.D

Analysis Method: TO-15 Date Collected: 02/07/2024 00:00

Sample wt/vol: 200(mL) Date Analyzed: 02/12/2024 12:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 200827 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.50	U	0.50	0.50
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-72031-1

SDG No.:

Client Sample ID: 6920 Lab Sample ID: 200-72031-12

Matrix: Air Lab File ID: 59029-06.D

Analysis Method: TO-15 Date Collected: 02/07/2024 00:00

Sample wt/vol: 200(mL) Date Analyzed: 02/12/2024 12:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 200827 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-72031-1

SDG No.:

Client Sample ID: 6920 Lab Sample ID: 200-72031-12

Matrix: Air Lab File ID: 59029-06.D

Analysis Method: TO-15 Date Collected: 02/07/2024 00:00

Sample wt/vol: 200(mL) Date Analyzed: 02/12/2024 12:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 200827 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHX.i\20240212-59029.b\59029-06.D
Lims ID: 200-72031-A-12
Client ID: 6920
Sample Type: Client
Inject. Date: 12-Feb-2024 12:36:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0059029-006
Misc. Info.: 72031-12
Operator ID: wrd Instrument ID: CHX.i

Method: \\chromfs\Burlington\ChromData\CHX.i\20240212-59029.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 13-Feb-2024 07:32:18 Calib Date: 10-Jan-2024 00:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHX.i\20240109-58561.b\58561-13.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: YWL8 Date: 13-Feb-2024 07:35:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.248				ND	
3 Dichlorodifluoromethane	85		4.345				ND	
4 Chlorodifluoromethane	51		4.393				ND	
5 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.703				ND	
6 Chloromethane	50		4.821				ND	
7 Vinyl chloride	62		5.126				ND	
8 Butane	43		5.126				ND	
9 Butadiene	54		5.238				ND	
10 Bromomethane	94		5.944				ND	
12 Chloroethane	64		6.206				ND	
14 Vinyl bromide	106		6.629				ND	
15 Trichlorofluoromethane	101		6.784				ND	
17 Ethanol	45	7.250	7.223	0.027	93	1357	0.2640	
20 1,1-Dichloroethene	96		7.843				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		7.881				ND	
22 Acetone	43		7.950				ND	7
24 Carbon disulfide	76	8.239	8.239	0.000	96	1838	0.0572	
23 Isopropyl alcohol	45	8.325	8.277	0.048	97	1541	0.1137	
27 3-Chloro-1-propene	41		8.539				ND	
28 Methylene Chloride	49		8.774				ND	
29 2-Methyl-2-propanol	59		9.053				ND	
32 trans-1,2-Dichloroethene	61		9.261				ND	
31 Methyl tert-butyl ether	73		9.288				ND	
S 33 1,2-Dichloroethene, Total	61		9.665				ND	7
34 Hexane	57		9.759				ND	
36 1,1-Dichloroethane	63		10.021				ND	
35 Vinyl acetate	43		10.037				ND	
37 2-Butanone (MEK)	72		11.005				ND	
38 cis-1,2-Dichloroethene	96		11.011				ND	
39 Ethyl acetate	88		11.075				ND	
* 40 Chlorobromomethane	128	11.417	11.417	0.000	75	79678	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		11.476				ND	
	42 Chloroform	83		11.594				ND	
	43 1,1,1-Trichloroethane	97		11.893				ND	
	44 Cyclohexane	84		12.022				ND	
	45 Carbon tetrachloride	117		12.166				ND	
	46 Benzene	78		12.514				ND	
	47 1,2-Dichloroethane	62		12.589				ND	
	48 Isooctane	57		12.717				ND	
	49 n-Heptane	43		13.022				ND	
*	50 1,4-Difluorobenzene	114	13.247	13.247	0.000	92	389454	10.0	
	52 Trichloroethene	95		13.675				ND	
	55 1,2-Dichloropropane	63		14.129				ND	
	56 Methyl methacrylate	69		14.226				ND	
	58 Dibromomethane	174		14.285				ND	
	57 1,4-Dioxane	88		14.290				ND	
	59 Dichlorobromomethane	83		14.595				ND	
	60 cis-1,3-Dichloropropene	75		15.392				ND	
	62 4-Methyl-2-pentanone (MIBK)	43		15.681				ND	
	63 Toluene	92		16.023				ND	
	67 trans-1,3-Dichloropropene	75		16.446				ND	
	68 1,1,2-Trichloroethane	83		16.820				ND	
	69 Tetrachloroethene	166		17.008				ND	
	70 2-Hexanone	43		17.264				ND	
	71 Chlorodibromomethane	129		17.553				ND	
	72 Ethylene Dibromide	107		17.789				ND	
*	73 Chlorobenzene-d5	117	18.698	18.693	0.005	82	341249	10.0	
	74 Chlorobenzene	112		18.752				ND	
	75 Ethylbenzene	91		18.944				ND	7
	76 m-Xylene & p-Xylene	106		19.201				ND	
S	78 Xylenes, Total	106		19.600				ND	7
	79 o-Xylene	106		19.977				ND	
	80 Styrene	104		20.014				ND	
	81 Bromoform	173		20.367				ND	
	82 Isopropylbenzene	105		20.677				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.212				ND	
	85 N-Propylbenzene	91		21.400				ND	
	86 2-Chlorotoluene	91		21.549				ND	
	87 4-Ethyltoluene	105		21.598				ND	
	88 1,3,5-Trimethylbenzene	105		21.689				ND	
	91 tert-Butylbenzene	119		22.175				ND	
	92 1,2,4-Trimethylbenzene	105		22.261				ND	
	93 sec-Butylbenzene	105		22.502				ND	
	94 1,3-Dichlorobenzene	146		22.673				ND	7
	95 4-Isopropyltoluene	119		22.716				ND	
	96 1,4-Dichlorobenzene	146		22.817				ND	7
	97 Benzyl chloride	91		22.962				ND	
	98 n-Butylbenzene	91		23.267				ND	
	99 1,2-Dichlorobenzene	146		23.299				ND	
	102 1,2,4-Trichlorobenzene	180		25.695				ND	
	103 Hexachlorobutadiene	225		25.936				ND	
	104 Naphthalene	128		26.166				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15XISs_00003 Amount Added: 20.00 Units: mL Run Reagent

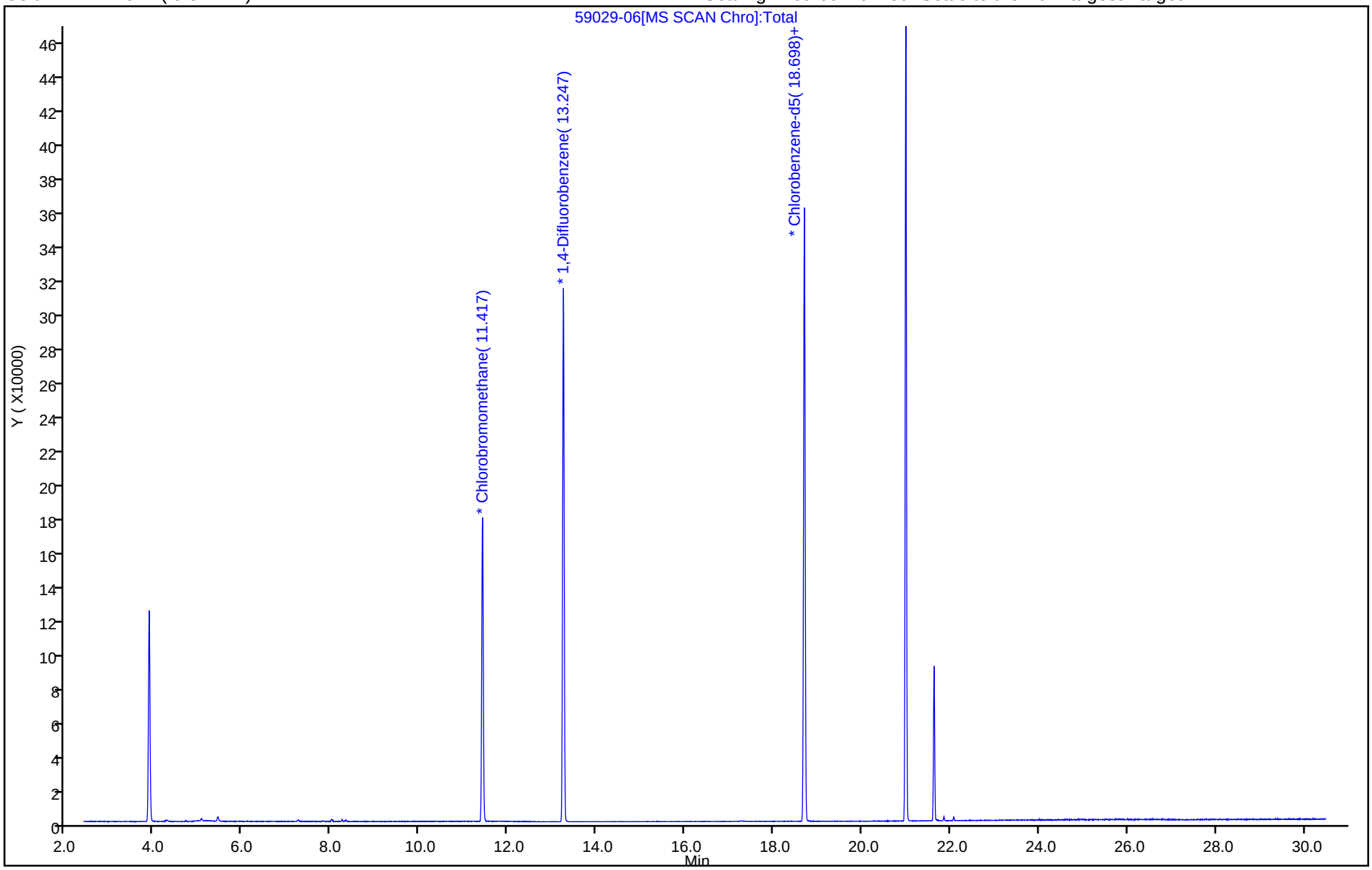
Report Date: 13-Feb-2024 07:35:38 Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHX.i\20240212-59029.b\59029-06.D

Injection Date:	12-Feb-2024 12:36:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	200-72031-A-12	Lab Sample ID:	200-72031-12	Worklist Smp#:	6
Client ID:	6920				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-72072-1

SDG No.:

Client Sample ID: 5854 Lab Sample ID: 200-72072-2

Matrix: Air Lab File ID: 59029-11.D

Analysis Method: TO-15 Date Collected: 02/09/2024 00:00

Sample wt/vol: 200(mL) Date Analyzed: 02/12/2024 17:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 200827 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.50	U	0.50	0.50
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-72072-1

SDG No.:

Client Sample ID: 5854 Lab Sample ID: 200-72072-2

Matrix: Air Lab File ID: 59029-11.D

Analysis Method: TO-15 Date Collected: 02/09/2024 00:00

Sample wt/vol: 200(mL) Date Analyzed: 02/12/2024 17:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 200827 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-72072-1

SDG No.:

Client Sample ID: 5854 Lab Sample ID: 200-72072-2

Matrix: Air Lab File ID: 59029-11.D

Analysis Method: TO-15 Date Collected: 02/09/2024 00:00

Sample wt/vol: 200(mL) Date Analyzed: 02/12/2024 17:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 200827 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHX.i\20240212-59029.b\59029-11.D
Lims ID: 200-72072-A-2
Client ID: 5854
Sample Type: Client
Inject. Date: 12-Feb-2024 17:19:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0059029-011
Misc. Info.: 72072-2
Operator ID: wrd Instrument ID: CHX.i

Method: \\chromfs\Burlington\ChromData\CHX.i\20240212-59029.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 13-Feb-2024 07:50:33 Calib Date: 10-Jan-2024 00:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHX.i\20240109-58561.b\58561-13.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: YWL8 Date: 13-Feb-2024 07:50:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.248				ND	
3 Dichlorodifluoromethane	85		4.345				ND	
4 Chlorodifluoromethane	51		4.393				ND	
5 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.703				ND	
6 Chloromethane	50		4.821				ND	
7 Vinyl chloride	62		5.126				ND	
8 Butane	43		5.126				ND	
9 Butadiene	54		5.238				ND	
10 Bromomethane	94		5.944				ND	
12 Chloroethane	64		6.206				ND	
14 Vinyl bromide	106		6.629				ND	
15 Trichlorofluoromethane	101		6.784				ND	
17 Ethanol	45	7.255	7.223	0.032	91	1423	0.2896	
20 1,1-Dichloroethene	96		7.843				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		7.881				ND	
22 Acetone	43		7.950				ND	7
24 Carbon disulfide	76	8.239	8.239	0.000	94	1039	0.0338	
23 Isopropyl alcohol	45		8.277				ND	MU
27 3-Chloro-1-propene	41		8.539				ND	
28 Methylene Chloride	49		8.774				ND	7
29 2-Methyl-2-propanol	59		9.053				ND	
32 trans-1,2-Dichloroethene	61		9.261				ND	
31 Methyl tert-butyl ether	73		9.288				ND	
S 33 1,2-Dichloroethene, Total	61		9.665				ND	7
34 Hexane	57		9.759				ND	
36 1,1-Dichloroethane	63		10.021				ND	
35 Vinyl acetate	43		10.037				ND	
37 2-Butanone (MEK)	72		11.005				ND	
38 cis-1,2-Dichloroethene	96		11.011				ND	
39 Ethyl acetate	88		11.075				ND	
* 40 Chlorobromomethane	128	11.417	11.417	0.000	75	76177	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		11.476				ND	
	42 Chloroform	83		11.594				ND	
	43 1,1,1-Trichloroethane	97		11.893				ND	
	44 Cyclohexane	84		12.022				ND	
	45 Carbon tetrachloride	117		12.166				ND	
	46 Benzene	78		12.514				ND	
	47 1,2-Dichloroethane	62		12.589				ND	
	48 Isooctane	57		12.717				ND	
	49 n-Heptane	43		13.022				ND	
*	50 1,4-Difluorobenzene	114	13.247	13.247	0.000	92	371933	10.0	
	52 Trichloroethene	95		13.675				ND	
	55 1,2-Dichloropropane	63		14.129				ND	
	56 Methyl methacrylate	69		14.226				ND	
	58 Dibromomethane	174		14.285				ND	
	57 1,4-Dioxane	88		14.290				ND	
	59 Dichlorobromomethane	83		14.595				ND	
	60 cis-1,3-Dichloropropene	75		15.392				ND	
	62 4-Methyl-2-pentanone (MIBK)	43		15.681				ND	
	63 Toluene	92		16.023				ND	7
	67 trans-1,3-Dichloropropene	75		16.446				ND	
	68 1,1,2-Trichloroethane	83		16.820				ND	
	69 Tetrachloroethene	166		17.008				ND	
	70 2-Hexanone	43		17.264				ND	
	71 Chlorodibromomethane	129		17.553				ND	
	72 Ethylene Dibromide	107		17.789				ND	
*	73 Chlorobenzene-d5	117	18.698	18.693	0.005	82	320999	10.0	
	74 Chlorobenzene	112		18.752				ND	
	75 Ethylbenzene	91		18.944				ND	
	76 m-Xylene & p-Xylene	106		19.201				ND	
S	78 Xylenes, Total	106		19.600				ND	7
	79 o-Xylene	106		19.977				ND	
	80 Styrene	104		20.014				ND	
	81 Bromoform	173		20.367				ND	
	82 Isopropylbenzene	105		20.677				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.212				ND	
	85 N-Propylbenzene	91		21.400				ND	
	86 2-Chlorotoluene	91		21.549				ND	
	87 4-Ethyltoluene	105		21.598				ND	
	88 1,3,5-Trimethylbenzene	105		21.689				ND	
	91 tert-Butylbenzene	119		22.175				ND	
	92 1,2,4-Trimethylbenzene	105		22.261				ND	
	93 sec-Butylbenzene	105		22.502				ND	
	94 1,3-Dichlorobenzene	146		22.673				ND	
	95 4-Isopropyltoluene	119		22.716				ND	
	96 1,4-Dichlorobenzene	146		22.817				ND	
	97 Benzyl chloride	91		22.962				ND	
	98 n-Butylbenzene	91		23.267				ND	
	99 1,2-Dichlorobenzene	146		23.299				ND	
	102 1,2,4-Trichlorobenzene	180		25.695				ND	
	103 Hexachlorobutadiene	225		25.936				ND	
	104 Naphthalene	128		26.166				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

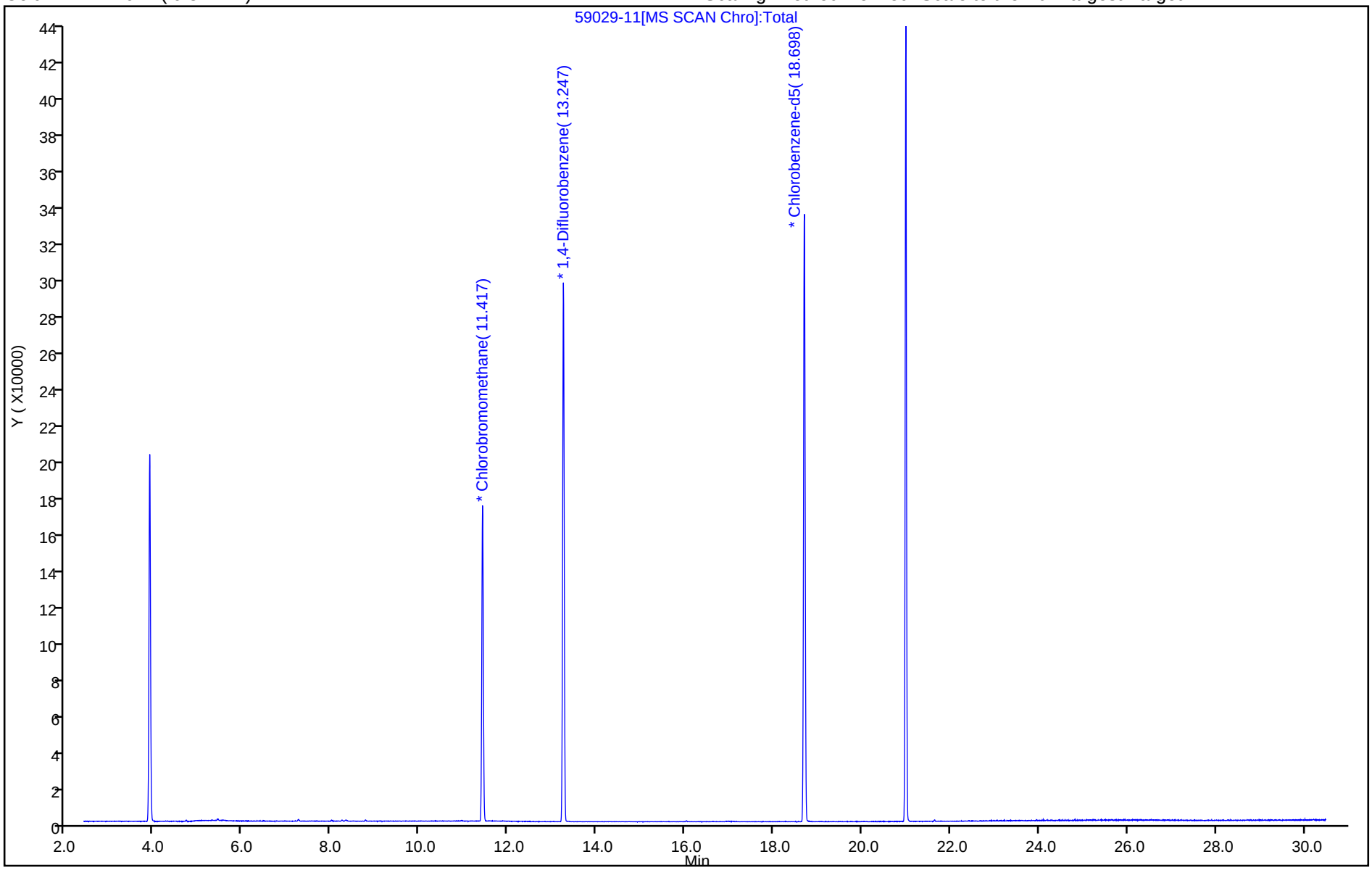
ATTO15XISs_00003 Amount Added: 20.00 Units: mL Run Reagent

Report Date: 13-Feb-2024 07:50:33 Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHX.i\20240212-59029.b\59029-11.D				
Injection Date:	12-Feb-2024 17:19:30	Instrument ID:	CHX.i	Operator ID:	wrd
Lims ID:	200-72072-A-2	Lab Sample ID:	200-72072-2	Worklist Smp#:	11
Client ID:	5854				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



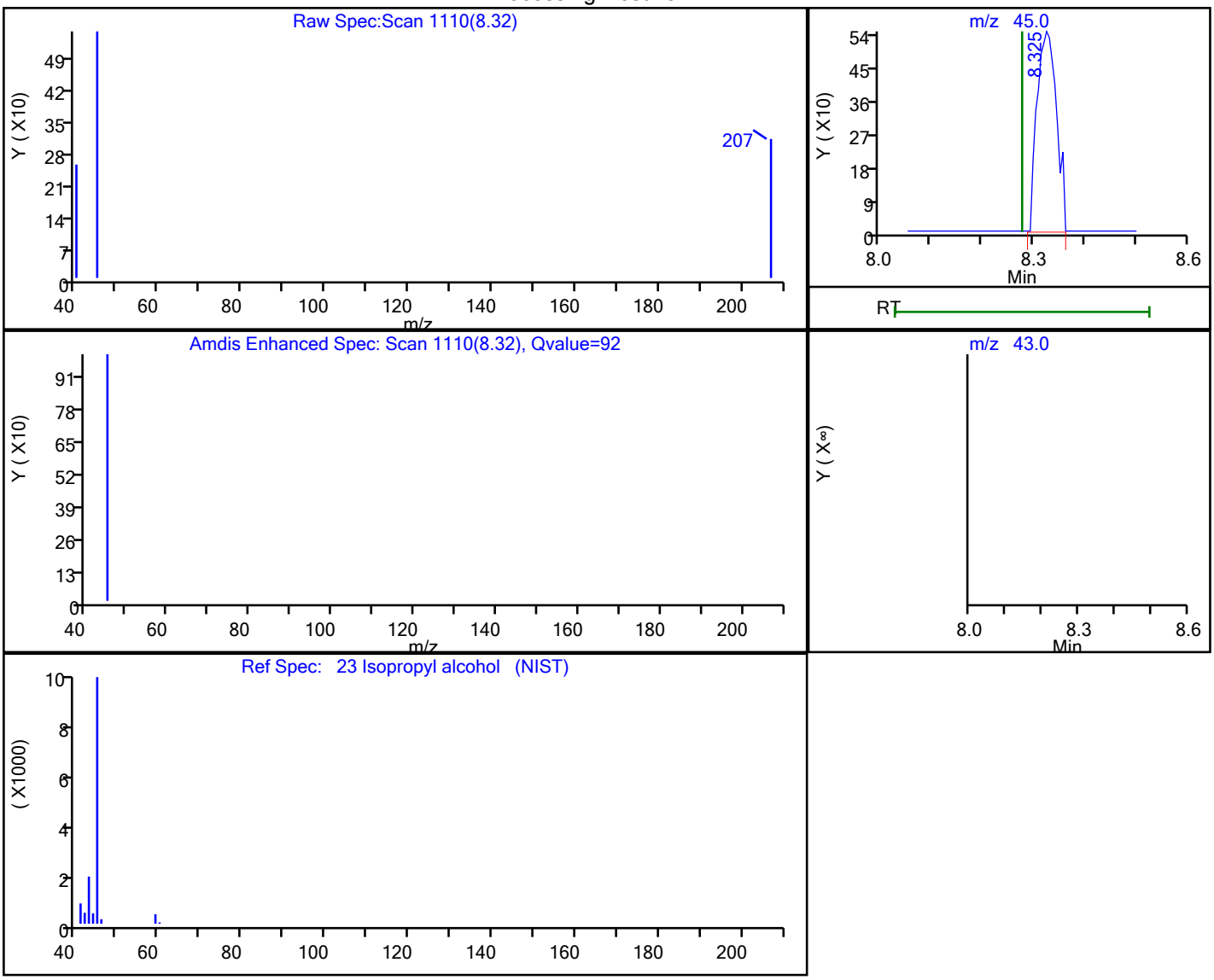
User Disabled Compound Report

Eurofins Burlington

Data File:	\\chromfs\Burlington\ChromData\CHX.i\20240212-59029.b\59029-11.D				
Injection Date:	12-Feb-2024 17:19:30	Instrument ID:	CHX.i		
Lims ID:	200-72072-A-2	Lab Sample ID:	200-72072-2		
Client ID:	5854				
Operator ID:	wrd	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	200.000 mL	Dil. Factor:	1.0000		
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		
Column:	RTX-624 (0.32 mm)	Detector	MS SCAN		

23 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
8.32	45.00	1455	0.112275
8.28	43.00	0	

Reviewer: YWL8, 13-Feb-2024 07:49:03 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-72183-1

SDG No.:

Client Sample ID: 4668 Lab Sample ID: 200-72183-10

Matrix: Air Lab File ID: 59120_027.D

Analysis Method: TO-15 Date Collected: 02/17/2024 00:00

Sample wt/vol: 200(mL) Date Analyzed: 02/20/2024 05:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 201024 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.20	U	0.20	0.069
100-42-5	Styrene	0.20	U	0.20	0.059
10061-01-5	1,3-Dichloropropene, cis-	0.20	U	0.20	0.045
10061-02-6	1,3-Dichloropropene, trans-	0.20	U	0.20	0.054
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.089
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.042
106-99-0	1,3-Butadiene	0.20	U	0.20	0.039
107-05-1	Allyl chloride	0.50	U	0.50	0.12
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.093
108-10-1	Methyl isobutyl ketone (MIBK)	0.50	U	0.50	0.13
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.047
108-88-3	Toluene	0.20	U	0.20	0.062
108-90-7	Chlorobenzene	0.20	U	0.20	0.044
109-99-9	Tetrahydrofuran	5.0	U	5.0	1.3
110-54-3	Hexane	0.50	U	0.50	0.11
110-82-7	Cyclohexane	0.20	U	0.20	0.058
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.33
123-91-1	1,4-Dioxane	0.20	U	0.20	0.082
124-48-1	Dibromochloromethane	0.20	U	0.20	0.063
127-18-4	Tetrachloroethene	0.20	U	0.20	0.021
142-82-5	n-Heptane	0.20	U	0.20	0.055
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.021
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.023
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.036
179601-23-1	m,p-Xylene	0.50	U	0.50	0.095
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.038
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.074
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.022
593-60-2	Vinyl bromide	0.20	U	0.20	0.050
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.049
64-17-5	Ethanol	5.0	U	5.0	2.6
67-63-0	Isopropanol	5.0	U	5.0	1.6
67-64-1	Acetone	5.0	U	5.0	1.6
67-66-3	Chloroform	0.20	U	0.20	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-72183-1

SDG No.:

Client Sample ID: 4668 Lab Sample ID: 200-72183-10

Matrix: Air Lab File ID: 59120_027.D

Analysis Method: TO-15 Date Collected: 02/17/2024 00:00

Sample wt/vol: 200(mL) Date Analyzed: 02/20/2024 05:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

Purge Volume: Heated Purge: (Y/N) pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 201024 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.20	U	0.20	0.044
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.044
74-83-9	Bromomethane	0.20	U	0.20	0.071
74-87-3	Chloromethane	0.50	U	0.50	0.15
75-00-3	Chloroethane	0.50	U	0.50	0.18
75-01-4	Vinyl chloride	0.20	U	0.20	0.021
75-09-2	Methylene Chloride	0.50	U	0.50	0.18
75-15-0	Carbon disulfide	0.50	U	0.50	0.13
75-25-2	Bromoform	0.20	U	0.20	0.12
75-27-4	Bromodichloromethane	0.20	U	0.20	0.050
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.025
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.026
75-65-0	tert-Butyl alcohol	5.0	U	5.0	1.2
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.050
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.053
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.048
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.094
78-93-3	Methyl ethyl ketone (MEK)	0.50	U	0.50	0.49
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.074
79-01-6	Trichloroethene	0.20	U	0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043
80-62-6	Methyl methacrylate	0.50	U	0.50	0.14
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.11
91-20-3	Naphthalene	0.50	U	0.50	0.30
95-47-6	Xylene, o-	0.20	U	0.20	0.063
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.046
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.066
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.080
591-78-6	2-Hexanone	0.50	U	0.50	0.15

Eurofins Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHAN.i\20240219-59120.b\59120_027.D
Lims ID: 200-72183-A-10
Client ID: 4668
Sample Type: Client
Inject. Date: 20-Feb-2024 05:41:44 ALS Bottle#: 0 Worklist Smp#: 27
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0059120-027
Misc. Info.: 72183-10
Operator ID: wrd Instrument ID: CHAN.i

Method: \\chromfs\Burlington\ChromData\CHAN.i\20240219-59120.b\TO15_TO3_Master_Method_AN.m
Limit Group: AI_TO15_ICAL
Last Update: 20-Feb-2024 08:43:44 Calib Date: 15-Feb-2024 23:57:24
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\CHAN.i\20240215-59096.b\59096_013.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: CTX1682

First Level Reviewer: BKZ7 Date: 20-Feb-2024 08:44:36

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		4.385				ND	7
	2 Dichlorodifluoromethane	85		4.487				ND	7
	3 Chlorodifluoromethane	51		4.535				ND	7
	4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.856				ND	
	5 Chloromethane	50		4.979				ND	7
	7 Butane	43		5.278				ND	7
	6 Vinyl chloride	62		5.278				ND	
	8 Butadiene	54		5.391				ND	
	9 Bromomethane	94		6.118				ND	
	10 Chloroethane	64		6.397				ND	
	13 Vinyl bromide	106		6.814				ND	
	14 Trichlorofluoromethane	101		6.974				ND	7
	16 Ethanol	45		7.370				ND	
	20 1,1-Dichloroethene	96		8.039				ND	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		8.076				ND	
	22 Acetone	43		8.125				ND	7
	23 Isopropyl alcohol	45		8.424				ND	
	24 Carbon disulfide	76		8.440				ND	7
	26 3-Chloro-1-propene	41		8.740				ND	
	27 Methylene Chloride	49		8.975				ND	7
	28 2-Methyl-2-propanol	59		9.189				ND	
	30 trans-1,2-Dichloroethene	61		9.467				ND	
	31 Methyl tert-butyl ether	73		9.473				ND	
	32 Hexane	57		9.976				ND	
S	35 1,2-Dichloroethene, Total	61		10.200				ND	7
	33 1,1-Dichloroethane	63		10.243				ND	
	34 Vinyl acetate	43		10.248				ND	
	36 2-Butanone (MEK)	72		11.211				ND	
	37 cis-1,2-Dichloroethene	96		11.238				ND	7
	38 Ethyl acetate	88		11.292				ND	
*	39 Chlorobromomethane	128	11.650	11.650	0.000	95	227395	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	40 Tetrahydrofuran	42		11.687				ND	
	41 Chloroform	83		11.827				ND	
	42 1,1,1-Trichloroethane	97		12.132				ND	
	43 Cyclohexane	84		12.265				ND	
	44 Carbon tetrachloride	117		12.404				ND	
	45 Benzene	78		12.757				ND	7
	46 1,2-Dichloroethane	62		12.832				ND	
	47 Isooctane	57		12.966				ND	
	48 n-Heptane	43		13.271				ND	7
*	49 1,4-Difluorobenzene	114	13.490	13.490	0.000	97	1182722	10.0	
	51 Trichloroethene	95		13.918				ND	
	53 1,2-Dichloropropane	63		14.384				ND	
	54 Methyl methacrylate	69		14.464				ND	
	55 1,4-Dioxane	88		14.501				ND	
	57 Dibromomethane	174		14.539				ND	7
	58 Dichlorobromomethane	83		14.849				ND	
	59 cis-1,3-Dichloropropene	75		15.652				ND	
	61 4-Methyl-2-pentanone (MIBK)	43		15.914				ND	
	62 Toluene	92		16.288				ND	
	66 trans-1,3-Dichloropropene	75		16.706				ND	
	67 1,1,2-Trichloroethane	83		17.080				ND	
	68 Tetrachloroethene	166		17.273				ND	
	69 2-Hexanone	43		17.487				ND	
	70 Chlorodibromomethane	129		17.813				ND	
	71 Ethylene Dibromide	107		18.054				ND	
*	73 Chlorobenzene-d5	117	18.963	18.963	0.000	92	1020787	10.0	
	74 Chlorobenzene	112		19.022				ND	
	75 Ethylbenzene	91		19.215				ND	
	76 m-Xylene & p-Xylene	106		19.471				ND	
S	80 Xylenes, Total	106		20.100				ND	7
	78 o-Xylene	106		20.247				ND	
	79 Styrene	104		20.279				ND	
	81 Bromoform	173		20.616				ND	
	82 Isopropylbenzene	105		20.921				ND	
	83 1,1,2,2-Tetrachloroethane	83		21.435				ND	7
	85 N-Propylbenzene	91		21.622				ND	
	86 2-Chlorotoluene	91		21.772				ND	
	87 4-Ethyltoluene	105		21.820				ND	
	88 1,3,5-Trimethylbenzene	105		21.911				ND	
	91 tert-Butylbenzene	119		22.387				ND	
	92 1,2,4-Trimethylbenzene	105		22.478				ND	
	93 sec-Butylbenzene	105		22.708				ND	
	94 1,3-Dichlorobenzene	146		22.885				ND	
	95 4-Isopropyltoluene	119		22.922				ND	
	96 1,4-Dichlorobenzene	146		23.024				ND	
	97 Benzyl chloride	91		23.173				ND	
	98 n-Butylbenzene	91		23.478				ND	
	99 1,2-Dichlorobenzene	146		23.521				ND	
	102 1,2,4-Trichlorobenzene	180		25.982				ND	
	103 Hexachlorobutadiene	225		26.228				ND	
	104 Naphthalene	128		26.474				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15CISs_00012 Amount Added: 20.00 Units: mL Run Reagent

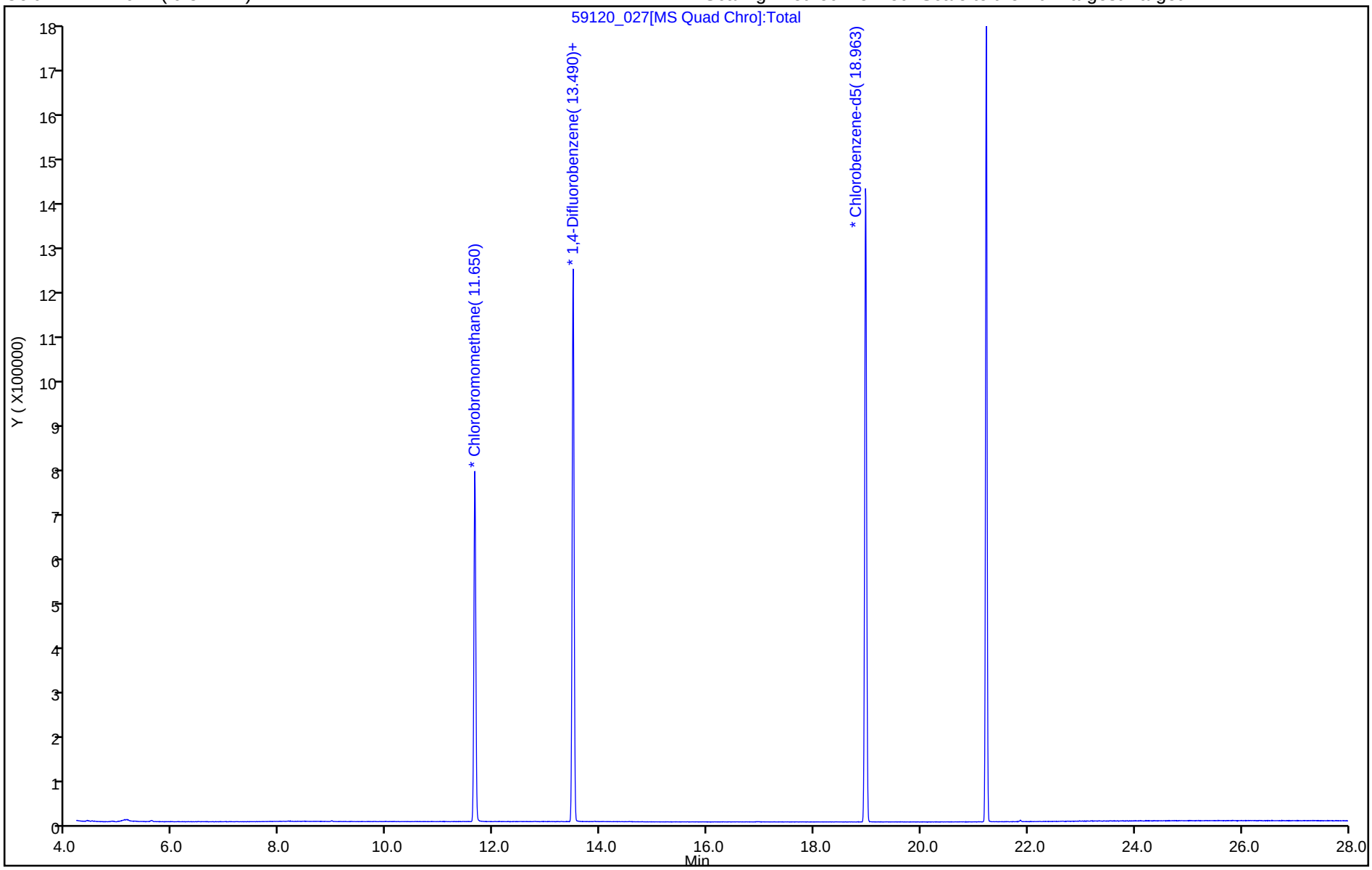
Report Date: 20-Feb-2024 08:44:36 Chrom Revision: 2.3 14-Feb-2024 16:13:40

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHAN.i\20240219-59120.b\59120_027.D

Injection Date:	20-Feb-2024 05:41:44	Instrument ID:	CHAN.i	Operator ID:	wrd
Lims ID:	200-72183-A-10	Lab Sample ID:	200-72183-10	Worklist Smp#:	27
Client ID:	4668				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	TO15_TO3_Master_Method_AN	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Summa Canister Dilution Worksheet

Client: ECS Midwest LLC
Project/Site: Crest Hill SSI

Job No.: 200-72780-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Initial Volume (mL)	Dilution Factor	Final Dilution Factor	Pressure Gauge ID	Date	Analyst Initals
200-72780-3	1	-2.9	0.90	0.90	41.3	3.81	3.81		4.22	4.22	G20	03/27/24 14:26	CRC
200-72780-3	1	0.0	1.00	1.00	41.3	3.81	3.81		3.81	16.07	G20	03/27/24 14:26	CRC

Formulae:

Preadjusted Volume (L) = ((Preadjusted Pressure ("Hg) + 29.92 "Hg) * Vol L) / 29.92 "Hg
Adjusted Volume (L) = ((Adjusted Pressure (psig) + 14.7 psig)* Vol L) / 14.7 psig
Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

29.92 "Hg = Standard atmospheric pressure in inches of Mercury (“Hg)
14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)