March 7, 2023

Ms. Mona Qianmeng Li
Essence Development
30 Hudson Yards
New York, NY 10001

Re: Summary Report
Soil Waste Classification Sampling
Fulton 11 – 301 W 19th St
Chelsea Addition – 436 W 27th St
New York, NY 10001

Dear Ms. Li:

As requested, HK Engineering & Geology, D.P.C. (HK) conducted soil sampling activities at 436 West 27th Dr. & 401 West 19th St. New York, NY on behalf of Essence Development. The scope of work was designed to collect general samples for soil waste classification purposes. This Summary Report presents the findings associated with the investigation activities.

FIELD ACTIVITIES (February 21, 2023)

436 West 27th Drive:

Three soil borings (SB1 – SB3) were advanced at 436 West 27th Drive to a depth of 15 feet below ground surface (bgs) utilizing direct push machinery. All soil/urban fill recovered was field screened using visual, olfactory senses, and a photoionization detection (PID). Stained soil and a petroleum odor was observed in soil boring SB1 from 12-15 feet bgs and elevated PID readings ranging from 0.2 – 4.3 parts per million (ppm) were detected from the 12-15 feet interval. PID readings from the 0-12 feet interval in soil boring SB1 all registered as 0.0 ppm. Groundwater was encountered at 13 feet bgs in boring SB1 and a petroleum sheen was observed on the groundwater. A grab soil sample for analysis of volatile organic compounds (VOCs) was collected from the 12-13 foot interval. A composite soil sample for analysis of all other parameters was collected from the 10-12 foot interval. PID readings for borings SB2 and SB3 registered as 0.0 ppm at all intervals. No evidence of petroleum product was observed in borings SB2 and SB3. Urban fill was observed in borings SB1 and SB3 down to 12 feet. Urban fill was also observed in boring SB2 from 1 to 7 feet. Sample SB2 was collected from 5-7 feet and sample SB3 was collected from 11-13 feet. Groundwater was encountered in boring SB3 at 13 feet.

401 West 19th Street:

Three soil borings (SB4 – SB6) were advanced at 401 West 19th Street to a depth of 15 feet bgs utilizing direct push machinery. All soil/urban fill recovered was field screened using visual, olfactory senses, and a photoionization detection (PID). PID readings for borings SB4 – SB6 registered as 0.0 ppm at all intervals. Urban fill was observed in borings SB4 and SB5 down to 14 feet. Urban fill was not observed in boring SB6. Sample SB4 was collected from 8-10 feet. Sample SB5 was collected from 11-13 feet. Sample SB6 was collected from 13-15 feet. Groundwater was not encountered in borings SB4 – SB6.

Soil samples were placed in laboratory approved containers and kept cool during transport to a New York certified laboratory under chain of custody protocol.

Samples were analyzed for general waste classification parameters which included Volatile Organic Compounds (VOCs), Semi volatile Organic Compounds (SVOCs) including Polycyclic Aromatic Hydrocarbons (PAHs), Polychlorinated Biphenyl (PCBs), RCRA Metals, TCLP Metals, Hexavalent Chromium, and general RCRA characteristics (ignitability, corrosivity, flammability, etc).

The attached Figure 1 depicts the sample locations for the soil samples collected at 436 West 27th Drive. Figure 2 depicts the sample locations for the soil samples collected at 401 West 19th Street. A summary of soil results is included as Table 1. Soil boring logs are included as Attachment A and the full laboratory data package is included as Attachment B.

RESULTS

Soil laboratory results were compared to the New York Sate Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted-Residential Use Soil Cleanup Objectives (RRUSCO).

- All VOC and SVOC compounds analyzed for were detected below the applicable UUSCOs and RRUSCOs.
- Pesticides compounds 4,4'-DDD, 4,4 DDE, and 4,4 DDT were detected in several borings in exceedance of the UUSCO but below the RRUSCO.
- Metals compounds Lead, Mercury, and Zinc were detected in several borings in exceedance of the UUSCO but below the RRUSCO. Lead was detected in boring SB4 above both the UUSCO and RRUSCO.
- All TCLP metal results were below the applicable EPA TCLP Hazardous Waste Limit.

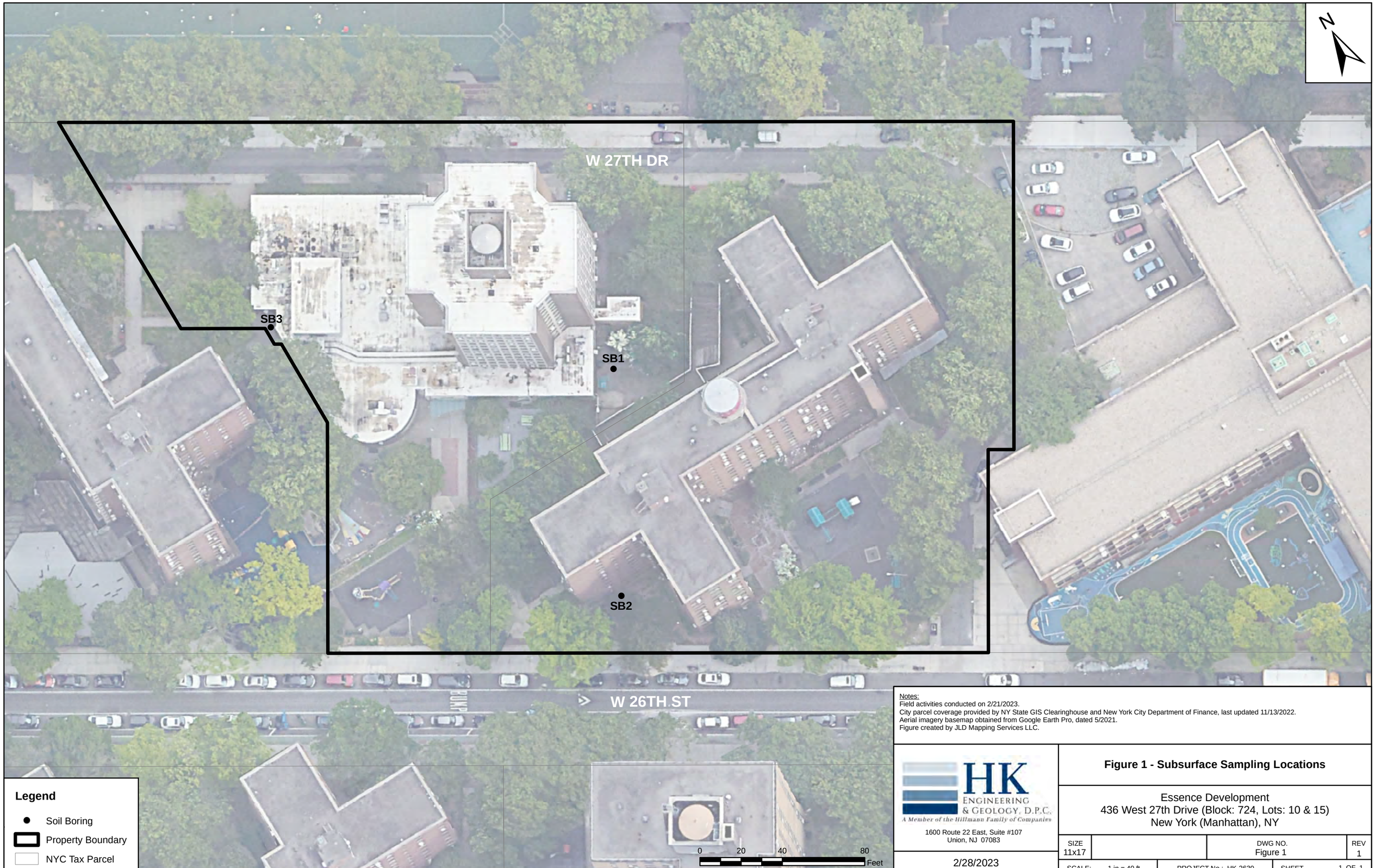
Based on the above referenced information, the disposal classification for the sampled soil is expected as non-hazardous/urban fill. (Note that the current building configurations did not allow sampling in all areas proposed for development and soil with different constituents may be present in unsampled areas). HK recommends all soil slated for off-site disposal during development activities be disposed of in accordance with federal, state and local regulations.

We thank you for the opportunity to provide you with our services. If you have any questions or comments, please feel free to contact us at any time.

Sincerely,
HK Engineering & Geology, D.P.C.

Ryan K. Powell, P.G.
Environmental Scientist

Chris Hirschmann, CHMM
Environmental Services Director



Notes:
Field activities conducted on 2/21/2023.
City parcel coverage provided by NY State GIS Clearinghouse and New York City Department of Finance, last updated 11/13/2022.
Aerial imagery basemap obtained from Google Earth Pro, dated 5/2021.
Figure created by JLD Mapping Services LLC.

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1600 Route 22 East, Suite #107
Union, NJ 07083

2/28/2023

Figure 1 - Subsurface Sampling Locations

Essence Development
436 West 27th Drive (Block: 724, Lots: 10 & 15)
New York (Manhattan), NY

SIZE		DWG NO.	REV
11x17		Figure 1	1

SCALE:	1 in = 40 ft	PROJECT No.: HK-2630	SHEET	1 OF 1

Notes:
Field activities conducted on 2/21/2023.
City parcel coverage provided by NY State GIS Clearinghouse and New York City Department of Finance, last updated 11/13/2022.
Aerial imagery basemap obtained from Google Earth Pro, dated 5/2021.
Figure created by JLD Mapping Services LLC.

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2/28/2023

Figure 2 - Subsurface Sampling Locations

Essence Development
401 West 19th Street (Block: 717, Lot: 19)
New York (Manhattan), NY

SIZE		DWG NO.	REV
11x17		Figure 2	0

SCALE: 1 in = 30 ft	PROJECT No.: HK-2630	SHEET 1 OF 1

Table 1 - Summary of Soil Sample Analytical Results - VOCs
Fulton 11 (401 West 19th St.) and Chelsea Addition (436 West 27th Drive)
New York, NY

HK Engineering & Geology, D.P.C.
Project #: HK2630

			Samples SB1 - SB3 collected from 436 West 27th Drive									Samples SB4 - SB6 collected from 401 West 19th St.								
Target Compounds	**NYSDEC Unrestricted Use SCO**	**NYSDEC Restricted Residential SCO**	**SB1** Sample Depth: 10-12'			**SB2** Sample Depth: 5-7'			**SB3** Sample Depth: 11-13'			**SB4** Sample Depth: 8-10'			**SB5** Sample Depth: 11-13'			**SB6** Sample Depth: 13-15'		
Volatiles (mg/Kg)			Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,1,1-Trichloroethane	**0.68**	**100**	0.00026	U	0.00026	0.00030	U	0.00030	0.00025	U	0.00025	0.00029	U	0.00029	0.00024	U	0.00024	0.00027	U	0.00027
1,1,2,2-Tetrachloroethane	**NS**	**NS**	0.00024	U	0.00024	0.00028	U	0.00028	0.00023	U	0.00023	0.00026	U	0.00026	0.00022	U	0.00022	0.00025	U	0.00025
1,1,2-Trichloroethane	**NS**	**NS**	0.00020	U	0.00020	0.00023	U	0.00023	0.00019	U	0.00019	0.00022	U	0.00022	0.00018	U	0.00018	0.00020	U	0.00020
1,1-Dichloroethane	**0.27**	**26**	0.00023	U	0.00023	0.00027	U	0.00027	0.00022	U	0.00022	0.00025	U	0.00025	0.00021	U	0.00021	0.00024	U	0.00024
1,1-Dichloroethene	**0.33**	**100**	0.00025	U	0.00025	0.00029	U	0.00029	0.00024	U	0.00024	0.00028	U	0.00028	0.00023	U	0.00023	0.00026	U	0.00026
1,2,3-Trichlorobenzene	**NS**	**NS**	0.00020	U	0.00020	0.00023	U	0.00023	0.00019	U	0.00019	0.00022	U	0.00022	0.00019	U	0.00019	0.00021	U	0.00021
1,2,4-Trichlorobenzene	**NS**	**NS**	0.00040	U	0.00040	0.00046	U	0.00046	0.00039	U	0.00039	0.00044	U	0.00044	0.00037	U	0.00037	0.00041	U	0.00041
1,2-Dibromo-3-Chloropropane	**NS**	**NS**	0.00051	U	0.00051	0.00059	U	0.00059	0.00050	U	0.00050	0.00057	U	0.00057	0.00047	U	0.00047	0.00053	U	0.00053
1,2-Dibromoethane	**NS**	**NS**	0.00020	U	0.00020	0.00023	U	0.00023	0.00019	U	0.00019	0.00022	U	0.00022	0.00019	U	0.00019	0.00021	U	0.00021
1,2-Dichlorobenzene	**1.1**	**100**	0.078		0.00040	0.00047	U	0.00047	0.00039	U	0.00039	0.00044	U	0.00044	0.00037	U	0.00037	0.00041	U	0.00041
1,2-Dichloroethane	**NS**	**3.1**	0.00033	U	0.00033	0.00038	U	0.00038	0.00032	U	0.00032	0.00036	U	0.00036	0.00030	U	0.00030	0.00034	U	0.00034
1,2-Dichloropropane	**NS**	**NS**	0.00047	U	0.00047	0.00054	U	0.00054	0.00046	U	0.00046	0.00052	U	0.00052	0.00044	U	0.00044	0.00049	U	0.00049
1,3-Dichlorobenzene	**2.4**	**49**	0.00092	J	0.00040	0.00047	U	0.00047	0.00039	U	0.00039	0.00045	U	0.00045	0.00038	U	0.00038	0.00042	U	0.00042
1,4-Dichlorobenzene	**1.8**	**13**	0.0020		0.00025	0.00029	U	0.00029	0.00024	U	0.00024	0.00028	U	0.00028	0.00023	U	0.00023	0.00026	U	0.00026
1,4-Dioxane	**0.1**	**13**	0.010	U	0.010	0.012	U	0.012	0.0099	U	0.0099	0.011	U	0.011	0.0095	U	0.0095	0.011	U	0.011
2-Butanone	**0.12**	**100**	0.018		0.00041	0.00047	U	0.00047	0.00040	U	0.00040	0.00045	U	0.00045	0.00038	U	0.00038	0.00042	U	0.00042
2-Hexanone	**NS**	**NS**	0.0019	U	0.0019	0.0022	U	0.0022	0.0018	U	0.0018	0.0021	U	0.0021	0.0018	U	0.0018	0.0020	U	0.0020
4-Methyl-2-pentanone	**NS**	**NS**	0.0017	U	0.0017	0.0020	U	0.0020	0.0017	U	0.0017	0.0019	U	0.0019	0.0016	U	0.0016	0.0018	U	0.0018
Acetone	**0.05**	**100**	0.042		0.0063	0.0074	U	0.0074	0.0097		0.0062	0.0070	U	0.0070	0.0059	U	0.0059	0.010		0.0066
Benzene	**0.06**	**4.8**	0.00049	J	0.00029	0.00033	U	0.00033	0.00028	U	0.00028	0.00032	U	0.00032	0.00027	U	0.00027	0.00030	U	0.00030
Bromochloromethane	**NS**	**NS**	0.00031	U	0.00031	0.00036	U	0.00036	0.00030	U	0.00030	0.00035	U	0.00035	0.00029	U	0.00029	0.00032	U	0.00032
Bromodichloromethane	**NS**	**NS**	0.00028	U	0.00028	0.00033	U	0.00033	0.00028	U	0.00028	0.00032	U	0.00032	0.00026	U	0.00026	0.00030	U	0.00030
Bromoform	**NS**	**NS**	0.00047	U	0.00047	0.00055	U	0.00055	0.00046	U	0.00046	0.00052	U	0.00052	0.00044	U	0.00044	0.00049	U	0.00049
Bromomethane	**NS**	**NS**	0.0011	U	0.0011	0.0013	U	0.0013	0.0011	U	0.0011	0.0012	U	0.0012	0.0010	U	0.0010	0.0011	U	0.0011
Carbon disulfide	**NS**	**NS**	0.0018		0.00029	0.00034	U	0.00034	0.00029	U	0.00029	0.00033	U	0.00033	0.00027	U	0.00027	0.00031	U	0.00031
Carbon tetrachloride	**0.76**	**2.4**	0.00043	U	0.00043	0.00050	U	0.00050	0.00042	U	0.00042	0.00048	U	0.00048	0.00040	U	0.00040	0.00044	U	0.00044
Chlorobenzene	**1.1**	**100**	0.00020	U	0.00020	0.00023	U	0.00023	0.00019	U	0.00019	0.00022	U	0.00022	0.00018	U	0.00018	0.00020	U	0.00020
Chloroethane	**NS**	**NS**	0.00058	U	0.00058	0.00067	U	0.00067	0.00056	U	0.00056	0.00064	U	0.00064	0.00054	U	0.00054	0.00060	U	0.00060
Chloroform	**0.37**	**49**	0.0011	U	0.0011	0.0013	U	0.0013	0.0010	U	0.0010	0.0012	U	0.0012	0.0010	U	0.0010	0.0011	U	0.0011
Chloromethane	**NS**	**NS**	0.00048	U	0.00048	0.00056	U	0.00056	0.00047	U	0.00047	0.00054	U	0.00054	0.00045	U	0.00045	0.00050	U	0.00050
cis-1,2-Dichloroethene	**0.25**	**100**	0.00040	U	0.00040	0.00046	U	0.00046	0.00039	U	0.00039	0.00044	U	0.00044	0.00037	U	0.00037	0.00041	U	0.00041
cis-1,3-Dichloropropene	**NS**	**NS**	0.00030	U	0.00030	0.00035	U	0.00035	0.00029	U	0.00029	0.00034	U	0.00034	0.00028	U	0.00028	0.00031	U	0.00031
Cyclohexane	**NS**	**NS**	0.00024	U	0.00024	0.00028	U	0.00028	0.00024	U	0.00024	0.00027	U	0.00027	0.00023	U	0.00023	0.00025	U	0.00025
Dibromochloromethane	**NS**	**NS**	0.00021	U	0.00021	0.00025	U	0.00025	0.00021	U	0.00021	0.00024	U	0.00024	0.00020	U	0.00020	0.00022	U	0.00022
Dichlorodifluoromethane	**NS**	**NS**	0.00037	U	0.00037	0.00044	U	0.00044	0.00036	U	0.00036	0.00042	U	0.00042	0.00035	U	0.00035	0.00039	U	0.00039
Ethylbenzene	**1**	**41**	0.00094	J	0.00022	0.00026	U	0.00026	0.00021	U	0.00021	0.00025	U	0.00025	0.00020	U	0.00020	0.00023	U	0.00023
Freon TF	**NS**	**NA**	0.00033	U	0.00033	0.00039	U	0.00039	0.00032	U	0.00032	0.00037	U	0.00037	0.00031	U	0.00031	0.00035	U	0.00035
Isopropylbenzene	**NS**	**NS**	0.39		0.00031	0.00037	U	0.00037	0.00031	U	0.00031	0.00035	U	0.00035	0.00029	U	0.00029	0.00033	U	0.00033
m&p-Xylene	**NS**	**NS**	0.00049	J	0.00019	0.00022	U	0.00022	0.00019	U	0.00019	0.00021	U	0.00021	0.00018	U	0.00018	0.00020	U	0.00020
Methyl acetate	**NS**	**NS**	0.0048	U	0.0048	0.0055	U	0.0055	0.0046	U	0.0046	0.0053	U	0.0053	0.0044	U	0.0044	0.0049	U	0.0049
Methylcyclohexane	**NS**	**NS**	0.082		0.00055	0.00064	U	0.00064	0.00054	U	0.00054	0.00061	U	0.00061	0.00051	U	0.00051	0.00057	U	0.00057
Methylene Chloride	**0.05**	**100**	0.0016	J	0.0013	0.0015	U	0.0015	0.0012	U	0.0012	0.0014	U	0.0014	0.0012	U	0.0012	0.0013	U	0.0013
MTBE	**0.93**	**100**	0.00057	U	0.00057	0.00066	U	0.00066	0.00055	U	0.00055	0.00063	U	0.00063	0.00053	U	0.00053	0.00059	U	0.00059
o-Xylene	**NS**	**NS**	0.00089	J	0.00021	0.00025	U	0.00025	0.00021	U	0.00021	0.00024	U	0.00024	0.00020	U	0.00020	0.00022	U	0.00022
Styrene	**NA**	**NS**	0.00031	U	0.00031	0.00036	U	0.00036	0.00030	U	0.00030	0.00034	U	0.00034	0.00029	U	0.00029	0.00032	U	0.00032
Tetrachloroethene	**1.3**	**19**	0.00034	U	0.00034	0.00039	U	0.00039	0.00033	U	0.00033	0.00038	U	0.00038	0.00031	U	0.00031	0.00035	U	0.00035
Toluene	**0.7**	**100**	0.00037	J	0.00026	0.00030	U	0.00030	0.00025	U	0.00025	0.00029	U	0.00029	0.00024	U	0.00024	0.00027	U	0.00027
trans-1,2-Dichloroethene	**0.19**	**100**	0.00027	U	0.00027	0.00032	U	0.00032	0.00026	U	0.00026	0.00030	U	0.00030	0.00025	U	0.00025	0.00028	U	0.00028
trans-1,3-Dichloropropene	**NS**	**NS**	0.00029	U	0.00029	0.00034	U	0.00034	0.00029	U	0.00029	0.00033	U	0.00033	0.00027	U	0.00027	0.00031	U	0.00031
Trichloroethene	**0.47**	**21**	0.00035	U	0.00035	0.00041	U	0.00041	0.00035	U	0.00035	0.00040	U	0.00040	0.00033	U	0.00033	0.00037	U	0.00037
Trichlorofluoromethane	**NS**	**NA**	0.00045	U	0.00045	0.00052	U	0.00052	0.00044	U	0.00044	0.00050	U	0.00050	0.00042	U	0.00042	0.00047	U	0.00047
Vinyl chloride	**0.02**	**0.9**	0.00060	U	0.00060	0.00070	U	0.00070	0.00059	U	0.00059	0.00067	U	0.00067	0.00056	U	0.00056	0.00063	U	0.00063
Total Conc	**NS**	**NS**	0.6195						0.0097									0.01		
Total Estimated Conc. (TICs)	**NS**	**NS**	0.0*T			0.0*T			0.0*T			0.0*T			0.0*T			0.0464		

Results in Yellow Highlight displays exceedance above the UUSCO regulatory standard
Results in Green Highlight displays exceedance above both UUSCO & RRUSCO regulatory standard
NS = No Standard Available
U = Indicates the analyte was analyzed for but not detected
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
***T = There are no TICs reported for the sample**

Table 1 - Summary of Soil Sample Analytical Results (cont'd) - SVOCs
Fulton 11 (401 West 19th St.) and Chelsea Addition (436 West 27th Drive)
New York, NY

HK Engineering & Geology, D.P.C.
Project #: HK2630

			Samples SB1 - SB3 collected from 436 West 27th Drive									Samples SB4 - SB6 collected from 401 West 19th St.								
Target Compounds	**NYSDEC Unrestricted Use SCO**	**NYSDEC Restricted Residential SCO**	**SB1** Sample Depth: 10-12'			**SB2** Sample Depth: 5-7'			**SB3** Sample Depth: 11-13'			**SB4** Sample Depth: 8-10'			**SB5** Sample Depth: 11-13'			**SB6** Sample Depth: 13-15'		
Semivolatiles (mg/Kg)			Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
1,2,4,5-Tetrachlorobenzene	NS	NS	0.011	U	0.011	0.011	U	0.011	0.011	U	0.011	0.011	U	0.011	0.011	U	0.011	0.011	U	0.011
2,2'-oxybis[1-chloropropane]	NS	NS	0.022	U	0.022	0.022	U	0.022	0.022	U	0.022	0.022	U	0.022	0.021	U	0.021	0.021	U	0.021
2,3,4,6-Tetrachlorophenol	NS	NS	0.024	U	0.024	0.025	U	0.025	0.025	U	0.025	0.025	U	0.025	0.023	U	0.023	0.024	U	0.024
2,4,5-Trichlorophenol	NS	NS	0.037	U	0.037	0.037	U	0.037	0.037	U	0.037	0.037	U	0.037	0.035	U	0.035	0.035	U	0.035
2,4,6-Trichlorophenol	NS	NS	0.046	U	0.046	0.047	U	0.047	0.047	U	0.047	0.047	U	0.047	0.044	U	0.044	0.045	U	0.045
2,4-Dichlorophenol	NS	NS	0.023	U	0.023	0.023	U	0.023	0.023	U	0.023	0.023	U	0.023	0.022	U	0.022	0.022	U	0.022
2,4-Dimethylphenol	NS	NS	0.043	U	0.043	0.044	U	0.044	0.043	U	0.043	0.043	U	0.043	0.041	U	0.041	0.042	U	0.042
2,4-Dinitrophenol	NS	NS	0.18	U *+	0.18	0.18	U *+	0.18	0.18	U *+	0.18	0.18	U *+	0.18	0.17	U *+	0.17	0.17	U *+	0.17
2,4-Dinitrotoluene	NS	NS	0.039	U	0.039	0.039	U	0.039	0.039	U	0.039	0.039	U	0.039	0.037	U	0.037	0.037	U	0.037
2,6-Dinitrotoluene	NS	NS	0.026	U	0.026	0.026	U	0.026	0.026	U	0.026	0.026	U	0.026	0.025	U	0.025	0.025	U	0.025
2-Chloronaphthalene	NS	NS	0.017	U	0.017	0.017	U	0.017	0.017	U	0.017	0.017	U	0.017	0.016	U	0.016	0.016	U	0.016
2-Chlorophenol	NS	NS	0.013	U	0.013	0.013	U	0.013	0.013	U	0.013	0.013	U	0.013	0.012	U	0.012	0.012	U	0.012
2-Methylnaphthalene	NS	NS	0.010	U	0.010	0.010	U	0.010	0.010	U	0.010	0.010	U	0.010	0.0097	U	0.0097	0.0097	U	0.0097
2-Methylphenol	0.33	100	0.013	U	0.013	0.014	U	0.014	0.014	U	0.014	0.014	U	0.014	0.013	U	0.013	0.013	U	0.013
2-Nitroaniline	NS	NS	0.027	U	0.027	0.028	U	0.028	0.028	U	0.028	0.028	U	0.028	0.026	U	0.026	0.027	U	0.027
2-Nitrophenol	NS	NS	0.036	U	0.036	0.037	U	0.037	0.036	U	0.036	0.036	U	0.036	0.035	U	0.035	0.035	U	0.035
3,3'-Dichlorobenzidine	NS	NS	0.054	U	0.054	0.055	U	0.055	0.055	U	0.055	0.055	U	0.055	0.052	U	0.052	0.053	U	0.053
3-Nitroaniline	NS	NS	0.085	U	0.085	0.087	U	0.087	0.086	U	0.086	0.086	U	0.086	0.082	U	0.082	0.083	U	0.083
4,6-Dinitro-2-methylphenol	NS	NS	0.15	U *+	0.15	0.15	U *+	0.15	0.15	U *+	0.15	0.15	U *+	0.15	0.14	U *+	0.14	0.14	U *+	0.14
4-Bromophenyl phenyl ether	NS	NS	0.014	U	0.014	0.014	U	0.014	0.014	U	0.014	0.014	U	0.014	0.014	U	0.014	0.014	U	0.014
4-Chloro-3-methylphenol	NS	NS	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.019	U	0.019	0.020	U	0.020
4-Chloroaniline	NS	NS	0.064	U	0.064	0.065	U	0.065	0.064	U	0.064	0.065	U	0.065	0.061	U	0.061	0.062	U	0.062
4-Chlorophenyl phenyl ether	NS	NS	0.013	U	0.013	0.013	U	0.013	0.013	U	0.013	0.013	U	0.013	0.012	U	0.012	0.012	U	0.012
4-Methylphenol	0.33	100	0.022	U	0.022	0.023	U	0.023	0.023	U	0.023	0.023	U	0.023	0.022	U	0.022	0.022	U	0.022
4-Nitroaniline	NS	NS	0.041	U	0.041	0.042	U	0.042	0.042	U	0.042	0.042	U	0.042	0.040	U	0.040	0.040	U	0.040
4-Nitrophenol	NS	NS	0.059	U	0.059	0.060	U	0.060	0.059	U	0.059	0.059	U	0.059	0.056	U	0.056	0.057	U	0.057
Acenaphthene	20	100	0.010	U	0.010	0.010	U	0.010	0.010	U	0.010	0.015	J	0.010	0.0098	U	0.0098	0.0099	U	0.0099
Acenaphthylene	100	100	0.010	U	0.010	0.015	J	0.010	0.010	U	0.010	0.063	J	0.010	0.0099	U	0.0099	0.010	U	0.010
Acetophenone	NS	NS	0.018	U	0.018	0.018	U	0.018	0.018	U	0.018	0.018	U	0.018	0.017	U	0.017	0.017	U	0.017
Anthracene	100	100	0.023	J	0.011	0.025	J	0.011	0.011	U	0.011	0.052	J	0.011	0.011	U	0.011	0.011	U	0.011
Atrazine	NS	NS	0.021	U	0.021	0.022	U	0.022	0.021	U	0.021	0.021	U	0.021	0.020	U	0.020	0.020	U	0.020
Benzaldehyde	NS	NS	0.059	U	0.059	0.060	U	0.060	0.060	U	0.060	0.060	U	0.060	0.057	U	0.057	0.058	U	0.058
Benzo[a]anthracene	1	1	0.071		0.027	0.16		0.028	0.059		0.027	0.28		0.027	0.026	U	0.026	0.026	U	0.026
Benzo[a]pyrene	1	1	0.067		0.0096	0.14		0.0097	0.057		0.0097	0.28		0.0097	0.020	J	0.0092	0.0093	U	0.0093
Benzo[b]fluoranthene	1	1	0.073		0.0093	0.17		0.0095	0.058		0.0094	0.34		0.0094	0.023	J	0.0089	0.0090	U	0.0090
Benzo[g,h,i]perylene	100	100	0.048	J	0.011	0.094	J	0.011	0.022	J	0.011	0.18	J	0.011	0.010	U	0.010	0.010	U	0.010
Benzo[k]fluoranthene	0.8	3.9	0.031	J	0.0071	0.068		0.0072	0.033	J	0.0071	0.17		0.0071	0.014	J	0.0068	0.0068	U	0.0068
Bis(2-chloroethoxy)methane	NS	NS	0.028	U	0.028	0.028	U	0.028	0.028	U	0.028	0.028	U	0.028	0.027	U	0.027	0.027	U	0.027
Bis(2-chloroethyl)ether	NS	NS	0.013	U	0.013	0.013	U	0.013	0.013	U	0.013	0.013	U	0.013	0.012	U	0.012	0.012	U	0.012
Bis(2-ethylhexyl) phthalate	NS	NS	0.019	U	0.019	0.019	U	0.019	0.019	U	0.019	0.019	U	0.019	0.018	U	0.018	0.018	U	0.018
Butyl benzyl phthalate	NS	NS	0.017	U	0.017	0.017	U	0.017	0.017	U	0.017	0.017	U	0.017	0.016	U	0.016	0.016	U	0.016
Caprolactam	NS	NS	0.056	U	0.056	0.057	U	0.057	0.056	U	0.056	0.057	U	0.057	0.054	U	0.054	0.054	U	0.054
Carbazole	NS	NS	0.014	U	0.014	0.014	U	0.014	0.014	U	0.014	0.037	J	0.014	0.013	U	0.013	0.013	U	0.013
Chrysene	1	3.9	0.066	J	0.015	0.18	J	0.015	0.063	J	0.015	0.30	J	0.015	0.026	J	0.015	0.015	U	0.015
Dibenz(a,h)anthracene	0.33	0.33	0.016	U	0.016	0.017	J	0.016	0.016	U	0.016	0.051		0.016	0.015	U	0.015	0.015	U	0.015
Dibenzofuran	7	59	0.012	U	0.012	0.012	U	0.012	0.012	U	0.012	0.012	U	0.012	0.012	U	0.012	0.012	U	0.012
Diethyl phthalate	NS	NS	0.012	U	0.012	0.012	U	0.012	0.012	U	0.012	0.012	U	0.012	0.011	U	0.011	0.011	U	0.011
Dimethyl phthalate	NS	NS	0.082	U	0.082	0.083	U	0.083	0.082	U	0.082	0.083	U	0.083	0.078	U	0.078	0.079	U	0.079
Di-n-butyl phthalate	NS	NS	0.014	U	0.014	0.014	U	0.014	0.014	U	0.014	0.014	U	0.014	0.013	U	0.013	0.013	U	0.013
Di-n-octyl phthalate	NS	NS	0.019	U	0.019	0.019	U	0.019	0.019	U	0.019	0.019	U	0.019	0.018	U	0.018	0.018	U	0.018
Diphenyl	NS	NS	0.013	U	0.013	0.013	U	0.013	0.013	U	0.013	0.013	U	0.013	0.012	U	0.012	0.012	U	0.012
Fluoranthene	100	100	0.13	J	0.013	0.24	J	0.013	0.096	J	0.013	0.44		0.013	0.046	J	0.012	0.018	J	0.012
Fluorene	30	100	0.011	U	0.011	0.011	U	0.011	0.011	U	0.011	0.018	J	0.011	0.010	U	0.010	0.010	U	0.010
Hexachlorobenzene	0.33	1.2	0.017	U	0.017	0.017	U	0.017	0.017	U	0.017	0.017	U	0.017	0.016	U	0.016	0.017	U	0.017
Hexachlorobutadiene	NS	NS	0.0077	U	0.0077	0.0078	U	0.0078	0.0077	U	0.0077	0.0077	U	0.0077	0.0073	U	0.0073	0.0074	U	0.0074
Hexachlorocyclopentadiene	NS	NS	0.032	U	0.032	0.032	U	0.032	0.032	U	0.032	0.032	U	0.032	0.030	U	0.030	0.031	U	0.031
Hexachloroethane	NS	NS	0.012	U	0.012	0.013	U	0.013	0.012	U	0.012	0.012	U	0.012	0.012	U	0.012	0.012	U	0.012
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.056		0.014	0.098		0.014	0.031	J	0.014	0.22		0.014	0.013	U	0.013	0.014	U	0.014
Isophorone	NS	NS	0.10	U	0.10	0.11	U	0.11	0.10	U	0.10	0.11	U	0.11	0.10	U	0.10	0.10	U	0.10
Naphthalene	12	100	0.0062	U	0.0062	0.0063	U	0.0063	0.0063	U	0.0063	0.011	J	0.0063	0.0060	U	0.0060	0.0060	U	0.0060
Nitrobenzene	NS	NS	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.019	U	0.019	0.019	U	0.019
N-Nitrosodimethylamine	NS	NS	0.033	U	0.033	0.034	U	0.034	0.034	U	0.034	0.034	U	0.034	0.032	U	0.032	0.032	U	0.032
N-Nitrosodi-n-propylamine	NS	NS	0.026	U	0.026	0.027	U	0.027	0.026	U	0.026	0.026	U	0.026	0.025	U	0.025	0.025	U	0.025
N-Nitrosodiphenylamine	NS	NS	0.030	U	0.030	0.030	U	0.030	0.030	U	0.030	0.030	U	0.030	0.028	U	0.028	0.029	U	0.029
Pentachlorophenol	0.8	6.7	0.074	U	0.074	0.075	U	0.075	0.074	U	0.074	0.075	U	0.075	0.071	U	0.071	0.071	U	0.071
Phenanthrene	100	100	0.10	J	0.015	0.14	J	0.015	0.045	J	0.015	0.25	J	0.015	0.031	J	0.014	0.018	J	0.014
Phenol	0.33	100	0.013	U	0.013	0.013	U	0.013	0.013	U	0.013	0.013	U	0.013	0.013	U	0.013	0.013	U	0.013
Pyrene	100	100	0.14	J	0.0089	0.27	J	0.0091	0.11	J	0.0090	0.41		0.0090	0.048	J	0.0086	0.018	J	0.0087
Total Conc	NS	NS	0.805			1.617			0.574			3.117			0.208			0.054		
Total Estimated Conc. (TICs)	NS	NS	0.0*T			0.0*T			0.0*T			0.0*T			0.0*T			0.0*T		

Results in Yellow Highlight displays exceedance above the UUSCO regulatory standard
Results in Green Highlight displays exceedance above both UUSCO & RRUSCO regulatory standard
NS = No Standard Available
U = Indicates the analyte was analyzed for but not detected
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
***T = There are no TICs reported for the sample**

Table 1 (cont'd) - Summary of Soil Sample Analytical Results - PCBs, Pesticides, Metals, General Chemistry
Fulton 11 (401 West 19th St.) and Chelsea Addition (436 West 27th Drive)
New York, NY

HK Engineering & Geology, D.P.C.
Project #: HK2630

			Samples SB1 - SB3 collected from 436 West 27th Drive									Samples SB4 - SB6 collected from 401 West 19th St.								
Target Compounds	**NYSDEC Unrestricted Use SCO**	**NYSDEC Restricted Residential SCO**	**SB1** Sample Depth: 10-12'			**SB2** Sample Depth: 5-7'			**SB3** Sample Depth: 11-13'			**SB4** Sample Depth: 8-10'			**SB5** Sample Depth: 11-13'			**SB6** Sample Depth: 13-15'		
PCBs (mg/Kg)			Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Aroclor 1016	NS	NS	0.019	U	0.019	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.019	U	0.019	0.019	U	0.019
Aroclor 1221	NS	NS	0.019	U	0.019	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.019	U	0.019	0.019	U	0.019
Aroclor 1232	NS	NS	0.019	U	0.019	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.019	U	0.019	0.019	U	0.019
Aroclor 1242	NS	NS	0.019	U	0.019	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.019	U	0.019	0.019	U	0.019
Aroclor 1248	NS	NS	0.019	U	0.019	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.019	U	0.019	0.019	U	0.019
Aroclor 1254	NS	NS	0.019	U	0.019	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.019	U	0.019	0.019	U	0.019
Aroclor 1260	NS	NS	0.019	U	0.019	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.019	U	0.019	0.019	U	0.019
Aroclor 1262	NS	NS	0.019	U	0.019	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.019	U	0.019	0.019	U	0.019
Aroclor 1268	NS	NS	0.019	U	0.019	0.020	U	0.020	0.020	U	0.020	0.020	U	0.020	0.019	U	0.019	0.019	U	0.019
Pesticides (mg/Kg)			Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
4,4'-DDD	0.0033	13	0.0012	U	0.0012	0.0013	U	0.0013	0.020		0.0012	0.0073	J	0.0013	0.0024	J	0.0012	0.0012	U	0.0012
4,4'-DDE	0.0033	8.9	0.0082		0.00086	0.00087	U	0.00087	0.14		0.00087	0.012		0.00087	0.0022	J	0.00083	0.00083	U	0.00083
4,4'-DDT	0.0033	7.9	0.012		0.0013	0.0043	J	0.0014	0.11		0.0013	0.022		0.0014	0.0093		0.0013	0.0013	U	0.0013
Aldrin	0.005	0.097	0.0011	U	0.0011	0.0011	U	0.0011	0.0011	U	0.0011	0.0011	U	0.0011	0.0011	U	0.0011	0.0011	U	0.0011
alpha-BHC	0.02	0.48	0.00074	U	0.00074	0.00075	U	0.00075	0.00075	U	0.00075	0.00075	U	0.00075	0.00071	U	0.00071	0.00072	U	0.00072
beta-BHC	0.036	0.36	0.00082	U	0.00082	0.00083	U	0.00083	0.00082	U	0.00082	0.00083	U	0.00083	0.00078	U	0.00078	0.00079	U	0.00079
Chlordane	NS	NS	0.018	U	0.018	0.018	U	0.018	0.018	U	0.018	0.018	U	0.018	0.017	U	0.017	0.017	U	0.017
cis-Chlordane	0.094	4.2	0.0012	U	0.0012	0.0012	U	0.0012	0.0012	U	0.0012	0.0057	J p	0.0012	0.0011	U	0.0011	0.0011	U	0.0011
delta-BHC	0.04	100	0.00045	U	0.00045	0.00045	U	0.00045	0.00045	U	0.00045	0.00045	U	0.00045	0.00043	U	0.00043	0.00043	U	0.00043
Dieldrin	0.005	0.2	0.00095	U	0.00095	0.00096	U	0.00096	0.00095	U	0.00095	0.00096	U	0.00096	0.00091	U	0.00091	0.00092	U	0.00092
Endosulfan I	2.4	24	0.0011	U	0.0011	0.0011	U	0.0011	0.0011	U	0.0011	0.0011	U	0.0011	0.0011	U	0.0011	0.0011	U	0.0011
Endosulfan II	2.4	24	0.0019	U	0.0019	0.0019	U	0.0019	0.0019	U	0.0019	0.0019	U	0.0019	0.0018	U	0.0018	0.0018	U	0.0018
Endosulfan sulfate	2.4	24	0.00091	U	0.00091	0.00093	U	0.00093	0.00092	U	0.00092	0.00092	U	0.00092	0.00088	U	0.00088	0.00089	U	0.00089
Endrin	0.014	11	0.0010	U	0.0010	0.0011	U	0.0011	0.0011	U	0.0011	0.0011	U	0.0011	0.0010	U	0.0010	0.0010	U	0.0010
Endrin aldehyde	NS	NS	0.0017	U	0.0017	0.0017	U	0.0017	0.0017	U	0.0017	0.0017	U	0.0017	0.0017	U	0.0017	0.0017	U	0.0017
Endrin ketone	NS	NS	0.0014	U	0.0014	0.0014	U	0.0014	0.0014	U	0.0014	0.0014	U	0.0014	0.0014	U	0.0014	0.0014	U	0.0014
gamma-BHC (Lindane)	0.1	1.3	0.00068	U	0.00068	0.00069	U	0.00069	0.00068	U	0.00068	0.00068	U	0.00068	0.00065	U	0.00065	0.00065	U	0.00065
Heptachlor	0.042	2.1	0.00086	U	0.00086	0.00087	U	0.00087	0.00087	U	0.00087	0.00087	U	0.00087	0.00083	U	0.00083	0.00083	U	0.00083
Heptachlor epoxide	NS	NS	0.0011	U	0.0011	0.0011	U	0.0011	0.0011	U	0.0011	0.0011	U	0.0011	0.0010	U	0.0010	0.0011	U	0.0011
Methoxychlor	NS	NS	0.0017	U	0.0017	0.0017	U	0.0017	0.0017	U	0.0017	0.0017	U	0.0017	0.0016	U	0.0016	0.0016	U	0.0016
Toxaphene	NS	NS	0.026	U	0.026	0.027	U	0.027	0.027	U	0.027	0.027	U	0.027	0.025	U	0.025	0.026	U	0.026
trans-Chlordane	NS	NS	0.0013	U	0.0013	0.0026	J	0.0013	0.0013	U	0.0013	0.0051	J	0.0013	0.0012	U	0.0012	0.0012	U	0.0012
Metals (mg/Kg)			Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Aluminum	NS	NS	7060		2.9	5180		3.0	4950		2.9	6040		2.6	4600		2.8	4210		2.9
Antimony	NS	NS	0.36	U	0.36	0.37	U	0.37	0.36	U	0.36	0.33	U	0.33	0.35	U	0.35	0.36	U	0.36
Arsenic	13	16	10		0.60	4.0		0.62	2.5	J	0.60	4.7		0.54	2.0	J	0.58	1.6	J	0.59
Barium	350	400	133		1.5	90.9		1.5	88.3		1.5	256		1.3	54.4		1.4	69.3		1.4
Beryllium	7.2	72	0.075	J	0.042	0.14	J	0.044	0.042	U	0.042	0.15	J	0.038	0.12	J	0.041	0.18	J	0.042
Cadmium	2.5	4.3	0.37	J	0.15	0.15	U	0.15	0.15	U	0.15	0.34	J	0.13	0.14	U	0.14	0.15	U	0.15
Calcium	NS	NS	13000		40.9	13700		42.2	5660		40.8	11500		37.1	5330		39.9	1940		40.3
Chromium	NS	NS	22.8		0.20	13.3		0.21	12.9		0.20	12.6		0.19	11.0		0.20	19.0		0.20
Cobalt	NS	NS	7.1	J	0.48	4.9	J	0.49	5.5	J	0.48	4.4	J	0.43	4.3	J	0.47	6.6	J	0.47
Copper	50	270	20.0		0.35	23.2		0.36	14.6		0.35	22.5		0.32	16.7		0.34	15.8		0.34
Iron	NS	NS	21000		5.8	8330		5.9	10300		5.7	8860		5.2	7960		5.6	9030		5.7
Lead	63	400	260		0.51	159		0.52	49.3		0.50	412		0.46	20.2		0.49	10.9		0.50
Magnesium	NS	NS	2890		56.9	2320		58.8	3460		56.7	2770		51.6	2340		55.5	2790		56.1
Manganese	1600	2000	307		0.23	350		0.24	226		0.23	260		0.21	273		0.22	604		0.23
Mercury	0.18	0.81	0.093		0.0086	0.47		0.0079	0.088		0.0081	0.63		0.0081	0.018		0.0074	0.011	J	0.0079
Nickel	30	310	21.8		0.27	12.1		0.28	23.7		0.27	11.3		0.24	8.9		0.26	21.2		0.26
Potassium	NS	NS	995		47.0	1040		48.6	983		46.9	855	J	42.7	1010		45.9	914	J	46.4
Selenium	3.9	180	1.2	U	1.2	1.2	U	1.2	1.2	U	1.2	1.1	U	1.1	1.1	U	1.1	1.2	U	1.2
Silver	2	180	0.16	U	0.16	0.20	J	0.16	0.16	U	0.16	0.18	J	0.14	0.15	U	0.15	0.15	U	0.15
Sodium	NS	NS	220	J	53.5	102	J	55.3	130	J	53.4	345	J	48.6	218	J	52.2	180	J	52.8
Thallium	NS	NS	0.57	U	0.57	0.59	U	0.59	0.57	U	0.57	0.52	U	0.52	0.56	U	0.56	0.56	U	0.56
Vanadium	NS	NS	25.1		0.51	12.4		0.53	15.9		0.51	14.6		0.47	15.9		0.50	13.3		0.51
Zinc	109	10000	178		0.33	59.4		0.34	59.8		0.33	186		0.30	28.3		0.32	27.3		0.33
TCLP Metals (mg/L)			Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
TCLP Arsenic	EPA TCLP LIMIT = 5.0 mg/L		0.0248	U	0.0248	0.0248	U	0.0248	0.0248	U	0.0248	0.0248	U	0.0248	0.0248	U	0.0248	0.0248	U	0.0248
TCLP Barium	EPA TCLP LIMIT = 100 mg/L		0.632	J	0.14	0.514	J	0.14	0.955	J	0.14	0.893	J	0.14	0.376	J	0.14	0.493	J	0.14
TCLP Cadmium	EPA TCLP LIMIT = 1.0 mg/L		0.0019	J	0.0018	0.005	J	0.0018	0.0031	J	0.0018	0.0072	J	0.0018	0.0019	J	0.0018	0.0018	U	0.0018
TCLP Chromium	EPA TCLP LIMIT = 5.0 mg/L		0.0249	U	0.0249	0.0249	U	0.0249	0.0249	U	0.0249	0.0249	U	0.0249	0.0249	U	0.0249	0.0249	U	0.0249
TCLP Lead	EPA TCLP LIMIT = 5.0 mg/L		0.127		0.0128	0.385		0.0128	0.639		0.0128	2.12		0.0128	0.0461	J	0.0128	0.1		0.0128
TCLP Mercury	EPA TCLP LIMIT = 0.2 mg/L		0.000091	U	0.000091	0.000091	U	0.000091	0.000091	U	0.000091	0.000091	U	0.000091	0.000091	U	0.000091	0.000091	U	0.000091
TCLP Selenium	EPA TCLP LIMIT = 1.0 mg/L		0.0351	U	0.0351	0.0351	U	0.0351	0.0351	U	0.0351	0.0351	U	0.0351	0.0351	U	0.0351	0.0351	U	0.0351
TCLP Silver	EPA TCLP LIMIT = 5.0 mg/L		0.0159	U	0.0159	0.0159	U	0.0159	0.0159	U	0.0159	0.0159	U	0.0159	0.0159	U	0.0159	0.0159	U	0.0159
General Analytical			Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Burn Rate (mm/sec)	NS	NS	2.20	U	2.20	2.20	U	2.20	2.20	U	2.20	2.20	U	2.20	2.20	U	2.20	2.20	U	2.20
Cyanide, Reactive (mg/kg)	NS	NS	25.0	U	25.0	25.0	U	25.0	25.0	U	25.0	25.0	U	25.0	25.0	U	25.0	25.0	U	25.0
Sulfide, Reactive (mg/kg)	NS	NS	20.0	U	20.0	20.8		20.0	20.0	U	20.0	20.0	U	20.0	20.0	U	20.0	20.0	U	20.0
pH (su)	NS	NS	8.8	HF		8.2	HF		8.9	HF		8.5	HF		11.2	HF		7.9	HF	
Temperature (degrees c)	NS	NS	22.3	HF		23.1	HF		22.4	HF		22.9	HF		22.7	HF		24.4	HF	

Results in Yellow Highlight displays exceedance above the UUSCO regulatory standard
Results in Green Highlight displays exceedance above both UUSCO & RRUSCO regulatory standard
Results in Orange Highlight displays exceedance above the EPA TCLP Limit
NS = No Standard Available
U = Indicates the analyte was analyzed for but not detected
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
p = The % RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

ATTACHMENT A

SOIL BORING LOGS

Soil Boring: SB1

Project:	HK2630	Date Started:	2/21/2023	Permit No.:	-
Client:	Essence Development	Date Finished:	2/21/2023	Well Diameter:	-
Location:	436 W 27th Dr	Boring Depth:	15'	Well Material:	-
	New York, NY 10001	GW Bore Depth:	-	Slot Size:	-
Drilling Co.:	Coastal Environmental	Lat/Northing:	-	Depth to GW:	13'
Rig Type:	Geoprobe 6610DT	Long/Easting:	-	Screen Interval:	-
Sample Type:	Macrocore 5'	Surface Elev:		Riser Interval:	-
Logged By:	Dominick A.	Install Method:	Direct Push	Flush/Stickup:	-
				Development Method:	-

HK ENGINEERING & GEOLOGY, D.P.C.

Depth (ft bgs)	Material Depth (ft bgs)	Material Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
SURFACE					
0	0-10'	Light brown sand (medium to coarse)	0.0	48	
			0.0		
1			0.0		
			0.0		
2			0.0		
			0.0		
3			0.0		
			0.0		
4			0.0		
			0.0		
5			0.0	24	
			0.0		
6			0.0		
			0.0		
7			0.0		
			0.0		
8			0.0		
			0.0		
9			0.0		
			0.0		
10	10-12'	Fill material	0.0	48	**Composite sample for sample**
			0.0		**SB1 - 436 collected from 10-12'**
11			0.0		
			0.0		
12	12-13'	Stained soil with petroluem odor	0.2		**VOC grab sample for sample**
			0.6		**SB1 - 436 collected from 12-13'**
13	13-15'	Stained soil with petroluem odor, wet. Sheen observed on groundwater.	1.3		
			2.5		**Groundwater encountered at 13'**
14			3.8		
			4.3		
15		**Boring terminated at 15'**			
16					
17					
18					
19					
20					

Soil Boring:

Project:	HK2630	Date Started:	2/21/2023	Permit No.:	-
Client:	Essence Development	Date Finished:	2/21/2023	Well Diameter:	-
Location:	436 W 27th Dr	Boring Depth:	15'	Well Material:	-
	New York, NY 10001	GW Bore Depth:	-	Slot Size:	-
Drilling Co.:	Coastal Environmental	Lat/Northing:	-	Depth to GW:	Not encountered
Rig Type:	Geoprobe 6610DT	Long/Easting:	-	Screen Interval:	-
Sample Type:	Macrocore 5'	Surface Elev:		Riser Interval:	-
Logged By:	Dominick A.	Install Method:	Direct Push	Flush/Stickup:	-
				Development Method:	-

HK ENGINEERING & GEOLOGY, D.P.C.

Depth (ft bgs)	Material Depth (ft bgs)	Material Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
SURFACE					
0	0-1'	Dark brown sand (medium to coarse)	0.0		
			0.0		
1	1-7'	Dark brown sand (medium to coarse) with fill material	0.0		
			0.0		
2			0.0	24	
			0.0		
3			0.0		
			0.0		
4			0.0		
			0.0		
5			0.0		**Sample SB2 - 436 collected from**
			0.0		**5-7'**
6			0.0		
			0.0		
7	7-15'	Dark brown sand (medium to coarse)	0.0	36	
			0.0		
8			0.0		
			0.0		
9			0.0		
			0.0		
10			0.0		
			0.0		
11			0.0		
			0.0		
12			0.0	48	
			0.0		
13			0.0		
			0.0		
14			0.0		
			0.0		
15		**Boring terminated at 15'**			
16					
17					
18					
19					
20					

Soil Boring: SB3

Project:	HK2630	Date Started:	2/21/2023	Permit No.:	-
Client:	Essence Development	Date Finished:	2/21/2023	Well Diameter:	-
Location:	436 W 27th Dr	Boring Depth:	15'	Well Material:	-
	New York, NY 10001	GW Bore Depth:	-	Slot Size:	-
Drilling Co.:	Coastal Environmental	Lat/Northing:	-	Depth to GW:	13'
Rig Type:	Geoprobe 6610DT	Long/Easting:	-	Screen Interval:	-
Sample Type:	Macrocore 5'	Surface Elev:		Riser Interval:	-
Logged By:	Dominick A.	Install Method:	Direct Push	Flush/Stickup:	-
				Development Method:	-

HK ENGINEERING & GEOLOGY, D.P.C.

Depth (ft bgs)	Material Depth (ft bgs)	Material Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
SURFACE					
0	0-10'	Dark brown sand (medium to coarse)	0.0	24	
			0.0		
1			0.0		
			0.0		
2			0.0		
			0.0		
3			0.0		
			0.0		
4			0.0		
			0.0		
5			0.0	24	
			0.0		
6			0.0		
			0.0		
7			0.0		
			0.0		
8			0.0		
			0.0		
9			0.0		
			0.0		
10	10-13'	Dark brown sand (medium to coarse) with fill material	0.0	36	
			0.0		
11			0.0		**Sample SB3 - 436 collected from**
			0.0		**11-13'**
12			0.0		
			0.0		
13	13-15'	Dark brown sand (medium to coarse), wet	0.0		**Groundwater encountered at 13'**
			0.0		
14			0.0		
			0.0		
15		**Boring terminated at 15'**			
16					
17					
18					
19					
20					

Soil Boring: SB4

Project:	HK2630	Date Started:	2/21/2023	Permit No.:	-
Client:	Essence Development	Date Finished:	2/21/2023	Well Diameter:	-
Location:	401 West 19th St.	Boring Depth:	15'	Well Material:	-
	New York, NY 10001	GW Bore Depth:	-	Slot Size:	-
Drilling Co.:	Coastal Environmental	Lat/Northing:	-	Depth to GW:	Not encountered
Rig Type:	Geoprobe 6610DT	Long/Easting:	-	Screen Interval:	-
Sample Type:	Macrocore 5'	Surface Elev:		Riser Interval:	-
Logged By:	Dominick A.	Install Method:	Direct Push	Flush/Stickup:	-
				Development Method:	-

HK ENGINEERING & GEOLOGY, D.P.C.

Depth (ft bgs)	Material Depth (ft bgs)	Material Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
SURFACE					
0	0-1'	Dark brown sand (medium to coarse)	0.0		
			0.0		
1	1-14'	Dark brown sand (medium to coarse) with fill material	0.0		
			0.0		
2			0.0	24	
			0.0		
3			0.0		
			0.0		
4			0.0		
			0.0		
5			0.0		
			0.0		
6			0.0		
			0.0		
7			0.0	36	
			0.0		
8			0.0		**Sample SB4 - 401 collected from**
			0.0		**8-10'**
9			0.0		
			0.0		
10			0.0		
			0.0		
11			0.0		
			0.0		
12			0.0	36	
			0.0		
13			0.0		
			0.0		
14	14-15'	Dark brown sand (very fine to medium)	0.0		
			0.0		
15		**Boring terminated at 15'**			
16					
17					
18					
19					
20					

Soil Boring: SB5

Project:	HK2630	Date Started:	2/21/2023	Permit No.:	-
Client:	Essence Development	Date Finished:	2/21/2023	Well Diameter:	-
Location:	401 West 19th St.	Boring Depth:	15'	Well Material:	-
	New York, NY 10001	GW Bore Depth:	-	Slot Size:	-
Drilling Co.:	Coastal Environmental	Lat/Northing:	-	Depth to GW:	Not encountered
Rig Type:	Geoprobe 6610DT	Long/Easting:	-	Screen Interval:	-
Sample Type:	Macrocore 5'	Surface Elev:		Riser Interval:	-
Logged By:	Dominick A.	Install Method:	Direct Push	Flush/Stickup:	-
				Development Method:	-

HK ENGINEERING & GEOLOGY, D.P.C.

Depth (ft bgs)	Material Depth (ft bgs)	Material Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
SURFACE					
0	0-7'	Fill material	0.0	24	
			0.0		
1			0.0		
			0.0		
2			0.0		
			0.0		
3			0.0		
			0.0		
4			0.0		
			0.0		
5			0.0	24	
			0.0		
6			0.0		
			0.0		
7	7-10'	Light brown sand (medium to coarse)	0.0		
			0.0		
8			0.0		
			0.0		
9			0.0		
			0.0		
10	10-13'	Light brown sand (medium to coarse) with fill material	0.0	48	
			0.0		
11			0.0		**Sample SB5 - 401 collected from**
			0.0		**11-13'**
12			0.0		
			0.0		
13	13-15'	Light brown sand (very fine to medium)	0.0		
			0.0		
14			0.0		
			0.0		
15		**Boring terminated at 15'**			
16					
17					
18					
19					
20					

Soil Boring: SB6

Project:	HK2630	Date Started:	2/21/2023	Permit No.:	-
Client:	Essence Development	Date Finished:	2/21/2023	Well Diameter:	-
Location:	401 West 19th St.	Boring Depth:	15'	Well Material:	-
	New York, NY 10001	GW Bore Depth:	-	Slot Size:	-
Drilling Co.:	Coastal Environmental	Lat/Northing:	-	Depth to GW:	Not encountered
Rig Type:	Geoprobe 6610DT	Long/Easting:	-	Screen Interval:	-
Sample Type:	Macrocore 5'	Surface Elev:		Riser Interval:	-
Logged By:	Dominick A.	Install Method:	Direct Push	Flush/Stickup:	-
				Development Method:	-

HK ENGINEERING & GEOLOGY, D.P.C.

Depth (ft bgs)	Material Depth (ft bgs)	Material Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
SURFACE					
0	0-10'	Light brown sand (medium to coarse)	0.0	24	
			0.0		
1			0.0		
			0.0		
2			0.0		
			0.0		
3			0.0		
			0.0		
4			0.0		
			0.0		
5			0.0	36	
			0.0		
6			0.0		
			0.0		
7			0.0		
			0.0		
8			0.0		
			0.0		
9			0.0		
			0.0		
10	10-15'	Light brown sand (very fine to medium)	0.0	36	
			0.0		
11			0.0		
			0.0		
12			0.0		
			0.0		
13			0.0		**Sample SB6 - 401 collected from**
			0.0		**13-15'**
14			0.0		
			0.0		
15		**Boring terminated at 15'**			
16					
17					
18					
19					
20					

ATTACHMENT B

LABORATORY ANALYTICAL DATA PACKAGE

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dominck Aponte
HK Engineering & Geology DPC
1600 Route 22 East
Union, New Jersey 07083

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JOB DESCRIPTION

HK2630

JOB NUMBER

460-275074-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

my EOL

Eurofins Edison

Job Notes

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 ID: 460-275074-1

Laboratory: Eurofins Edison

Narrative

CASE NARRATIVE

Client: HK Engineering & Geology DPC

Project: HK2630

Report Number: 460-275074-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 2/22/2023 4:40 PM. 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 4.1º C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)
Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were prepared on 02/23/2023 and analyzed on 02/27/2023 and 02/28/2023.

Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB1-436 (460-275074-1). These results have been reported and qualified.

The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-895235 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane, Carbon disulfide and Chloromethane. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-895235 was outside the method criteria for the following analytes: Chloromethane (biased high) and Bromoform (biased low). 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(s) is considered estimated.

The continuing calibration verification (CCV) associated with batch 460-895205 recovered above the upper control limit for Chloromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Refer to the QC report for details.

Job ID: 460-275074-1 (Continued)

Laboratory: Eurofins Edison (Continued)

No other difficulties were encountered during the Volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)
Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270E. The samples were prepared on 02/23/2023 and analyzed on 02/24/2023 and 02/25/2023.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-894612 and analytical batch 460-894672 recovered outside control limits for the following analytes: 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Several analytes failed the recovery criteria low for the MS of sample 460-275096-2 in batch 460-894672.

For the MSD of sample 460-275096-2 in batch 460-894672, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol and Hexachlorocyclopentadiene failed the recovery criteria low. Di-n-octyl phthalate failed the recovery criteria high. Also, Dibenz(a,h)anthracene exceeded the RPD limit.

The continuing calibration verification (CCV) analyzed in batch 460-894672 was outside the method criteria for the following analyte(s): < 2,2'-oxybis[1-chloropropane], 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, Benzaldehyde, Di-n-octyl phthalate and Pentachlorophenol>. 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(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-894650 was outside the method criteria for the following analyte(s): 4-Nitrophenol, Indeno[1,2,3-cd]pyrene, Benzidine, Di-n-octyl phthalate and Benzaldehyde. 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(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-894653 was outside the method criteria for the following analyte(s): 2-Nitroaniline, 4-Nitrophenol, Benzaldehyde and Hexachlorobenzene. 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(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-894849 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, Benzaldehyde and Pentachlorophenol. 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(s) is considered estimated.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES
Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 02/24/2023 and analyzed on 02/27/2023.

The DCB Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (low biased) on the confirmation column: (460-275044-E-1-G). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Job ID: 460-275074-1 (Continued)

Laboratory: Eurofins Edison (Continued)

The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE for the following sample: (460-275142-F-5-I). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Refer to the QC report for details..

No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS
Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 02/24/2023 and analyzed on 02/27/2023 and 02/28/2023.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

METALS - TCLP
Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for Metals - TCLP in accordance with EPA SW-846 Methods 1311/ 6010D. The samples were leached on 02/25/2023, prepared on 02/26/2023 and analyzed on 02/27/2023.

No difficulties were encountered during the Metals - TCLP analysis.

All quality control parameters were within the acceptance limits.

TOTAL METALS (ICP)
Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for Total Metals (ICP) in accordance with EPA SW-846 Methods 6010D. The samples were prepared on 02/23/2023 and analyzed on 02/27/2023 and 03/01/2023.

Iron failed the recovery criteria low for the MS of sample 460-275007-1 in batch 460-895539. Aluminum and Calcium failed the recovery criteria high.

Arsenic and Nickel exceeded the RPD limit for the duplicate of sample 460-275007-1.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Samples SB1-436 (460-275074-1)[2X], SB2-436 (460-275074-2)[2X], SB3-436 (460-275074-3)[2X], SB4-301 (460-275074-4)[2X], SB5-301 (460-275074-5)[2X] and SB6-301 (460-275074-6)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Total Metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

MERCURY - TCLP
Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for Mercury - TCLP in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 02/25/2023, and prepared and analyzed on 02/27/2023.

Job ID: 460-275074-1 (Continued)

Laboratory: Eurofins Edison (Continued)

No difficulties were encountered during the TCLP Hg analysis.

All quality control parameters were within the acceptance limits.

MERCURY - TOTAL
Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for Mercury - Total in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 02/24/2023 and 02/27/2023.

Mercury failed the recovery criteria low for the MS of sample SB4-301MS (460-275074-4) in batch 460-894673.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

IGNITABILITY
Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for Ignitability in accordance with EPA SW-846 Method 1030. The samples were analyzed on 02/28/2023.

No difficulties were encountered during the Ignitability analysis.

All quality control parameters were within the acceptance limits.

REACTIVE CYANIDE
Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for reactive cyanide in accordance with EPA SW-846 Method 7.3.3/9014. The samples were prepared and analyzed on 02/24/2023.

No difficulties were encountered during the reactive cyanide analysis.

All quality control parameters were within the acceptance limits.

REACTIVE SULFIDE
Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for reactive sulfide in accordance with EPA SW-846 Method 7.3.4/9034. The samples were prepared and analyzed on 02/24/2023.

No difficulties were encountered during the reactive sulfide analysis.

All quality control parameters were within the acceptance limits.

CORROSIVITY (PH)
Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for corrosivity (pH) in accordance with EPA SW-846 Method 9045D. The samples were analyzed on 02/25/2023 and 02/28/2023.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: SB2-436

Job ID: 460-275074-1 (Continued)

Laboratory: Eurofins Edison (Continued)

(460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5), SB6-301 (460-275074-6), (460-275074-G-6 DU) and (460-274960-A-2) and (460-274960-A-2 DU).

No difficulties were encountered during the corrosivity (pH) analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples SB1-436 (460-275074-1), SB2-436 (460-275074-2), SB3-436 (460-275074-3), SB4-301 (460-275074-4), SB5-301 (460-275074-5) and SB6-301 (460-275074-6) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 02/23/2023.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB1-436 — Lab Sample ID: 460-275074-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.0016	J	0.0022	0.0013	mg/Kg	1	☼	8260D	Total/NA
Acetone	0.042		0.0066	0.0063	mg/Kg	1	☼	8260D	Total/NA
Carbon disulfide	0.0018		0.0011	0.00029	mg/Kg	1	☼	8260D	Total/NA
2-Butanone	0.018		0.0055	0.00041	mg/Kg	1	☼	8260D	Total/NA
Benzene	0.00049	J	0.0011	0.00029	mg/Kg	1	☼	8260D	Total/NA
Toluene	0.00037	J	0.0011	0.00026	mg/Kg	1	☼	8260D	Total/NA
Ethylbenzene	0.00094	J	0.0011	0.00022	mg/Kg	1	☼	8260D	Total/NA
m&p-Xylene	0.00049	J	0.0011	0.00019	mg/Kg	1	☼	8260D	Total/NA
o-Xylene	0.00089	J	0.0011	0.00021	mg/Kg	1	☼	8260D	Total/NA
1,3-Dichlorobenzene	0.00092	J	0.0011	0.00040	mg/Kg	1	☼	8260D	Total/NA
1,4-Dichlorobenzene	0.0020		0.0011	0.00025	mg/Kg	1	☼	8260D	Total/NA
1,2-Dichlorobenzene	0.078		0.0011	0.00040	mg/Kg	1	☼	8260D	Total/NA
Isopropylbenzene	0.39		0.0011	0.00031	mg/Kg	1	☼	8260D	Total/NA
Methylcyclohexane	0.082		0.0011	0.00055	mg/Kg	1	☼	8260D	Total/NA
Phenanthrene	0.10	J	0.36	0.015	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.023	J	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.13	J	0.36	0.013	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.14	J	0.36	0.0089	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.071		0.036	0.027	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.066	J	0.36	0.015	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.073		0.036	0.0093	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.031	J	0.036	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.067		0.036	0.0096	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.056		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.048	J	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
4,4'-DDE	0.0082		0.0073	0.00086	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.012		0.0073	0.0013	mg/Kg	1	☼	8081B	Total/NA
Aluminum	7060		38.3	2.9	mg/Kg	2	☼	6010D	Total/NA
Arsenic	10		2.9	0.60	mg/Kg	2	☼	6010D	Total/NA
Barium	133		38.3	1.5	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.075	J	0.38	0.042	mg/Kg	2	☼	6010D	Total/NA
Calcium	13000		958	40.9	mg/Kg	2	☼	6010D	Total/NA
Cadmium	0.37	J	0.77	0.15	mg/Kg	2	☼	6010D	Total/NA
Cobalt	7.1	J	9.6	0.48	mg/Kg	2	☼	6010D	Total/NA
Chromium	22.8		1.9	0.20	mg/Kg	2	☼	6010D	Total/NA
Copper	20.0		4.8	0.35	mg/Kg	2	☼	6010D	Total/NA
Iron	21000		28.7	5.8	mg/Kg	2	☼	6010D	Total/NA
Potassium	995		958	47.0	mg/Kg	2	☼	6010D	Total/NA
Magnesium	2890		958	56.9	mg/Kg	2	☼	6010D	Total/NA
Manganese	307		2.9	0.23	mg/Kg	2	☼	6010D	Total/NA
Sodium	220	J	958	53.5	mg/Kg	2	☼	6010D	Total/NA
Nickel	21.8		7.7	0.27	mg/Kg	2	☼	6010D	Total/NA
Lead	260		1.9	0.51	mg/Kg	2	☼	6010D	Total/NA
Vanadium	25.1		9.6	0.51	mg/Kg	2	☼	6010D	Total/NA
Zinc	178		5.7	0.33	mg/Kg	2	☼	6010D	Total/NA
Barium	632	J	1000	140	ug/L	5		6010D	TCLP
Cadmium	1.9	J	20.0	1.8	ug/L	5		6010D	TCLP
Lead	127		50.0	12.8	ug/L	5		6010D	TCLP
Mercury	0.093		0.018	0.0086	mg/Kg	1	☼	7471B	Total/NA
pH	8.8	HF			SU	1		9045D	Total/NA
Temperature	22.3	HF			Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB2-436 — Lab Sample ID: 460-275074-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.015	J	0.36	0.010	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.14	J	0.36	0.015	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.025	J	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.24	J	0.36	0.013	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.27	J	0.36	0.0091	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.16		0.036	0.028	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.18	J	0.36	0.015	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.17		0.036	0.0095	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.068		0.036	0.0072	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.14		0.036	0.0097	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.098		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.017	J	0.036	0.016	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.094	J	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
4,4'-DDT	0.0043	J	0.0074	0.0014	mg/Kg	1	☼	8081B	Total/NA
trans-Chlordane	0.0026	J	0.0074	0.0013	mg/Kg	1	☼	8081B	Total/NA
Silver	0.20	J	2.0	0.16	mg/Kg	2	☼	6010D	Total/NA
Aluminum	5180		39.6	3.0	mg/Kg	2	☼	6010D	Total/NA
Arsenic	4.0		3.0	0.62	mg/Kg	2	☼	6010D	Total/NA
Barium	90.9		39.6	1.5	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.14	J	0.40	0.044	mg/Kg	2	☼	6010D	Total/NA
Calcium	13700		989	42.2	mg/Kg	2	☼	6010D	Total/NA
Cobalt	4.9	J	9.9	0.49	mg/Kg	2	☼	6010D	Total/NA
Chromium	13.3		2.0	0.21	mg/Kg	2	☼	6010D	Total/NA
Copper	23.2		4.9	0.36	mg/Kg	2	☼	6010D	Total/NA
Iron	8330		29.7	5.9	mg/Kg	2	☼	6010D	Total/NA
Potassium	1040		989	48.6	mg/Kg	2	☼	6010D	Total/NA
Magnesium	2320		989	58.8	mg/Kg	2	☼	6010D	Total/NA
Manganese	350		3.0	0.24	mg/Kg	2	☼	6010D	Total/NA
Sodium	102	J	989	55.3	mg/Kg	2	☼	6010D	Total/NA
Nickel	12.1		7.9	0.28	mg/Kg	2	☼	6010D	Total/NA
Lead	159		2.0	0.52	mg/Kg	2	☼	6010D	Total/NA
Vanadium	12.4		9.9	0.53	mg/Kg	2	☼	6010D	Total/NA
Zinc	59.4		5.9	0.34	mg/Kg	2	☼	6010D	Total/NA
Barium	514	J	1000	140	ug/L	5		6010D	TCLP
Cadmium	5.0	J	20.0	1.8	ug/L	5		6010D	TCLP
Lead	385		50.0	12.8	ug/L	5		6010D	TCLP
Mercury	0.47		0.017	0.0079	mg/Kg	1	☼	7471B	Total/NA
Sulfide, Reactive	20.8		20.0	20.0	mg/Kg	1		9034	Total/NA
pH	8.2	HF			SU	1		9045D	Total/NA
Temperature	23.1	HF			Degrees C	1		9045D	Total/NA

Client Sample ID: SB3-436 — Lab Sample ID: 460-275074-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0097		0.0065	0.0062	mg/Kg	1	☼	8260D	Total/NA
Phenanthrene	0.045	J	0.36	0.015	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.096	J	0.36	0.013	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.11	J	0.36	0.0090	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.059		0.036	0.027	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.063	J	0.36	0.015	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.058		0.036	0.0094	mg/Kg	1	☼	8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB3-436 (Continued) — Lab Sample ID: 460-275074-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.033	J	0.036	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.057		0.036	0.0097	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.031	J	0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.022	J	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
4,4'-DDD	0.020		0.0073	0.0012	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDE	0.14		0.0073	0.00087	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.11		0.0073	0.0013	mg/Kg	1	☼	8081B	Total/NA
Aluminum	4950		38.2	2.9	mg/Kg	2	☼	6010D	Total/NA
Arsenic	2.5	J	2.9	0.60	mg/Kg	2	☼	6010D	Total/NA
Barium	88.3		38.2	1.5	mg/Kg	2	☼	6010D	Total/NA
Calcium	5660		955	40.8	mg/Kg	2	☼	6010D	Total/NA
Cobalt	5.5	J	9.6	0.48	mg/Kg	2	☼	6010D	Total/NA
Chromium	12.9		1.9	0.20	mg/Kg	2	☼	6010D	Total/NA
Copper	14.6		4.8	0.35	mg/Kg	2	☼	6010D	Total/NA
Iron	10300		28.7	5.7	mg/Kg	2	☼	6010D	Total/NA
Potassium	983		955	46.9	mg/Kg	2	☼	6010D	Total/NA
Magnesium	3460		955	56.7	mg/Kg	2	☼	6010D	Total/NA
Manganese	226		2.9	0.23	mg/Kg	2	☼	6010D	Total/NA
Sodium	130	J	955	53.4	mg/Kg	2	☼	6010D	Total/NA
Nickel	23.7		7.6	0.27	mg/Kg	2	☼	6010D	Total/NA
Lead	49.3		1.9	0.50	mg/Kg	2	☼	6010D	Total/NA
Vanadium	15.9		9.6	0.51	mg/Kg	2	☼	6010D	Total/NA
Zinc	59.8		5.7	0.33	mg/Kg	2	☼	6010D	Total/NA
Barium	955	J	1000	140	ug/L	5		6010D	TCLP
Cadmium	3.1	J	20.0	1.8	ug/L	5		6010D	TCLP
Lead	639		50.0	12.8	ug/L	5		6010D	TCLP
Mercury	0.088		0.017	0.0081	mg/Kg	1	☼	7471B	Total/NA
pH	8.9	HF			SU	1		9045D	Total/NA
Temperature	22.4	HF			Degrees C	1		9045D	Total/NA

Client Sample ID: SB4-301 — Lab Sample ID: 460-275074-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.011	J	0.36	0.0063	mg/Kg	1	☼	8270E	Total/NA
Acenaphthylene	0.063	J	0.36	0.010	mg/Kg	1	☼	8270E	Total/NA
Acenaphthene	0.015	J	0.36	0.010	mg/Kg	1	☼	8270E	Total/NA
Fluorene	0.018	J	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Phenanthrene	0.25	J	0.36	0.015	mg/Kg	1	☼	8270E	Total/NA
Anthracene	0.052	J	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
Carbazole	0.037	J	0.36	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.44		0.36	0.013	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.41		0.36	0.0090	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]anthracene	0.28		0.036	0.027	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.30	J	0.36	0.015	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.34		0.036	0.0094	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.17		0.036	0.0071	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.28		0.036	0.0097	mg/Kg	1	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.22		0.036	0.014	mg/Kg	1	☼	8270E	Total/NA
Dibenz(a,h)anthracene	0.051		0.036	0.016	mg/Kg	1	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.18	J	0.36	0.011	mg/Kg	1	☼	8270E	Total/NA
4,4'-DDD	0.0073	J	0.0074	0.0013	mg/Kg	1	☼	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB4-301 (Continued) — Lab Sample ID: 460-275074-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.012		0.0074	0.00087	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.022		0.0074	0.0014	mg/Kg	1	☼	8081B	Total/NA
cis-Chlordane	0.0057	J p	0.0074	0.0012	mg/Kg	1	☼	8081B	Total/NA
trans-Chlordane	0.0051	J	0.0074	0.0013	mg/Kg	1	☼	8081B	Total/NA
Silver	0.18	J	1.7	0.14	mg/Kg	2	☼	6010D	Total/NA
Aluminum	6040		34.8	2.6	mg/Kg	2	☼	6010D	Total/NA
Arsenic	4.7		2.6	0.54	mg/Kg	2	☼	6010D	Total/NA
Barium	256		34.8	1.3	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.15	J	0.35	0.038	mg/Kg	2	☼	6010D	Total/NA
Calcium	11500		869	37.1	mg/Kg	2	☼	6010D	Total/NA
Cadmium	0.34	J	0.70	0.13	mg/Kg	2	☼	6010D	Total/NA
Cobalt	4.4	J	8.7	0.43	mg/Kg	2	☼	6010D	Total/NA
Chromium	12.6		1.7	0.19	mg/Kg	2	☼	6010D	Total/NA
Copper	22.5		4.3	0.32	mg/Kg	2	☼	6010D	Total/NA
Iron	8860		26.1	5.2	mg/Kg	2	☼	6010D	Total/NA
Potassium	855	J	869	42.7	mg/Kg	2	☼	6010D	Total/NA
Magnesium	2770		869	51.6	mg/Kg	2	☼	6010D	Total/NA
Manganese	260		2.6	0.21	mg/Kg	2	☼	6010D	Total/NA
Sodium	345	J	869	48.6	mg/Kg	2	☼	6010D	Total/NA
Nickel	11.3		7.0	0.24	mg/Kg	2	☼	6010D	Total/NA
Lead	412		1.7	0.46	mg/Kg	2	☼	6010D	Total/NA
Vanadium	14.6		8.7	0.47	mg/Kg	2	☼	6010D	Total/NA
Zinc	186		5.2	0.30	mg/Kg	2	☼	6010D	Total/NA
Barium	893	J	1000	140	ug/L	5		6010D	TCLP
Cadmium	7.2	J	20.0	1.8	ug/L	5		6010D	TCLP
Lead	2120		50.0	12.8	ug/L	5		6010D	TCLP
Mercury	0.63		0.017	0.0081	mg/Kg	1	☼	7471B	Total/NA
pH	8.5	HF			SU	1		9045D	Total/NA
Temperature	22.9	HF			Degrees C	1		9045D	Total/NA

Client Sample ID: SB5-301 — Lab Sample ID: 460-275074-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.031	J	0.34	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.046	J	0.34	0.012	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.048	J	0.34	0.0086	mg/Kg	1	☼	8270E	Total/NA
Chrysene	0.026	J	0.34	0.015	mg/Kg	1	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.023	J	0.034	0.0089	mg/Kg	1	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.014	J	0.034	0.0068	mg/Kg	1	☼	8270E	Total/NA
Benzo[a]pyrene	0.020	J	0.034	0.0092	mg/Kg	1	☼	8270E	Total/NA
4,4'-DDD	0.0024	J	0.0070	0.0012	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDE	0.0022	J	0.0070	0.00083	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.0093		0.0070	0.0013	mg/Kg	1	☼	8081B	Total/NA
Aluminum	4600		37.4	2.8	mg/Kg	2	☼	6010D	Total/NA
Arsenic	2.0	J	2.8	0.58	mg/Kg	2	☼	6010D	Total/NA
Barium	54.4		37.4	1.4	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.12	J	0.37	0.041	mg/Kg	2	☼	6010D	Total/NA
Calcium	5330		934	39.9	mg/Kg	2	☼	6010D	Total/NA
Cobalt	4.3	J	9.3	0.47	mg/Kg	2	☼	6010D	Total/NA
Chromium	11.0		1.9	0.20	mg/Kg	2	☼	6010D	Total/NA
Copper	16.7		4.7	0.34	mg/Kg	2	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB5-301 (Continued) — Lab Sample ID: 460-275074-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	7960		28.0	5.6	mg/Kg	2	☼	6010D	Total/NA
Potassium	1010		934	45.9	mg/Kg	2	☼	6010D	Total/NA
Magnesium	2340		934	55.5	mg/Kg	2	☼	6010D	Total/NA
Manganese	273		2.8	0.22	mg/Kg	2	☼	6010D	Total/NA
Sodium	218	J	934	52.2	mg/Kg	2	☼	6010D	Total/NA
Nickel	8.9		7.5	0.26	mg/Kg	2	☼	6010D	Total/NA
Lead	20.2		1.9	0.49	mg/Kg	2	☼	6010D	Total/NA
Vanadium	15.9		9.3	0.50	mg/Kg	2	☼	6010D	Total/NA
Zinc	28.3		5.6	0.32	mg/Kg	2	☼	6010D	Total/NA
Barium	376	J	1000	140	ug/L	5		6010D	TCLP
Cadmium	1.9	J	20.0	1.8	ug/L	5		6010D	TCLP
Lead	46.1	J	50.0	12.8	ug/L	5		6010D	TCLP
Mercury	0.018		0.016	0.0074	mg/Kg	1	☼	7471B	Total/NA
pH	11.2	HF			SU	1		9045D	Total/NA
Temperature	22.7	HF			Degrees C	1		9045D	Total/NA

Client Sample ID: SB6-301 — Lab Sample ID: 460-275074-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.010		0.0069	0.0066	mg/Kg	1	☼	8260D	Total/NA
Phenanthrene	0.018	J	0.35	0.014	mg/Kg	1	☼	8270E	Total/NA
Fluoranthene	0.018	J	0.35	0.012	mg/Kg	1	☼	8270E	Total/NA
Pyrene	0.018	J	0.35	0.0087	mg/Kg	1	☼	8270E	Total/NA
Aluminum	4210		37.8	2.9	mg/Kg	2	☼	6010D	Total/NA
Arsenic	1.6	J	2.8	0.59	mg/Kg	2	☼	6010D	Total/NA
Barium	69.3		37.8	1.4	mg/Kg	2	☼	6010D	Total/NA
Beryllium	0.18	J	0.38	0.042	mg/Kg	2	☼	6010D	Total/NA
Calcium	1940		944	40.3	mg/Kg	2	☼	6010D	Total/NA
Cobalt	6.6	J	9.4	0.47	mg/Kg	2	☼	6010D	Total/NA
Chromium	19.0		1.9	0.20	mg/Kg	2	☼	6010D	Total/NA
Copper	15.8		4.7	0.34	mg/Kg	2	☼	6010D	Total/NA
Iron	9030		28.3	5.7	mg/Kg	2	☼	6010D	Total/NA
Potassium	914	J	944	46.4	mg/Kg	2	☼	6010D	Total/NA
Magnesium	2790		944	56.1	mg/Kg	2	☼	6010D	Total/NA
Manganese	604		2.8	0.23	mg/Kg	2	☼	6010D	Total/NA
Sodium	180	J	944	52.8	mg/Kg	2	☼	6010D	Total/NA
Nickel	21.2		7.6	0.26	mg/Kg	2	☼	6010D	Total/NA
Lead	10.9		1.9	0.50	mg/Kg	2	☼	6010D	Total/NA
Vanadium	13.3		9.4	0.51	mg/Kg	2	☼	6010D	Total/NA
Zinc	27.3		5.7	0.33	mg/Kg	2	☼	6010D	Total/NA
Barium	493	J	1000	140	ug/L	5		6010D	TCLP
Lead	100		50.0	12.8	ug/L	5		6010D	TCLP
Mercury	0.011	J	0.017	0.0079	mg/Kg	1	☼	7471B	Total/NA
pH	7.9	HF			SU	1		9045D	Total/NA
Temperature	24.4	HF			Degrees C	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB1-436

Date Collected: 02/21/23 09:26
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-1

Matrix: Solid
Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.00048	U	0.0011	0.00048	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Bromomethane	0.0011	U	0.0022	0.0011	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Vinyl chloride	0.00060	U	0.0011	0.00060	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Chloroethane	0.00058	U	0.0011	0.00058	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Methylene Chloride	**0.0016**	**J**	0.0022	0.0013	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Acetone	**0.042**		0.0066	0.0063	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Carbon disulfide	**0.0018**		0.0011	0.00029	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Trichlorofluoromethane	0.00045	U	0.0011	0.00045	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,1-Dichloroethene	0.00025	U	0.0011	0.00025	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,1-Dichloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
trans-1,2-Dichloroethene	0.00027	U	0.0011	0.00027	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
cis-1,2-Dichloroethene	0.00040	U	0.0011	0.00040	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,2-Dichloroethane	0.00033	U	0.0011	0.00033	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
2-Butanone	**0.018**		0.0055	0.00041	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,1,1-Trichloroethane	0.00026	U	0.0011	0.00026	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Carbon tetrachloride	0.00043	U	0.0011	0.00043	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Bromodichloromethane	0.00028	U	0.0011	0.00028	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,2-Dichloropropane	0.00047	U	0.0011	0.00047	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
cis-1,3-Dichloropropene	0.00030	U	0.0011	0.00030	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Trichloroethene	0.00035	U	0.0011	0.00035	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Dibromochloromethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,1,2-Trichloroethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Benzene	**0.00049**	**J**	0.0011	0.00029	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
trans-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Bromoform	0.00047	U	0.0011	0.00047	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
4-Methyl-2-pentanone	0.0017	U	0.0055	0.0017	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
2-Hexanone	0.0019	U	0.0055	0.0019	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Tetrachloroethene	0.00034	U	0.0011	0.00034	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,1,2,2-Tetrachloroethane	0.00024	U	0.0011	0.00024	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Toluene	**0.00037**	**J**	0.0011	0.00026	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Chlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Ethylbenzene	**0.00094**	**J**	0.0011	0.00022	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Styrene	0.00031	U	0.0011	0.00031	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
m&p-Xylene	**0.00049**	**J**	0.0011	0.00019	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
o-Xylene	**0.00089**	**J**	0.0011	0.00021	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Freon TF	0.00033	U	0.0011	0.00033	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
MTBE	0.00057	U	0.0011	0.00057	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Cyclohexane	0.00024	U	0.0011	0.00024	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,2-Dibromoethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,3-Dichlorobenzene	**0.00092**	**J**	0.0011	0.00040	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,4-Dichlorobenzene	**0.0020**		0.0011	0.00025	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,2-Dichlorobenzene	**0.078**		0.0011	0.00040	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Dichlorodifluoromethane	0.00037	U	0.0011	0.00037	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,2,4-Trichlorobenzene	0.00040	U	0.0011	0.00040	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,4-Dioxane	0.010	U	0.11	0.010	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,2,3-Trichlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
1,2-Dibromo-3-Chloropropane	0.00051	U	0.0011	0.00051	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Bromochloromethane	0.00031	U	0.0011	0.00031	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1

Client Sample ID: SB1-436

Date Collected: 02/21/23 09:26
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-1

Matrix: Solid
Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	**0.39**		0.0011	0.00031	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Methyl acetate	0.0048	U	0.0055	0.0048	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1
Methylcyclohexane	**0.082**		0.0011	0.00055	mg/Kg	☼	02/23/23 08:33	02/27/23 17:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
4-Octen-3-one	*3.7*	*J N*	*mg/Kg*	☼	*9.25*	*14129-48-7*	*02/23/23 08:33*	*02/27/23 17:01*	*1*
Unknown	*2.0*	*J*	*mg/Kg*	☼	*9.50*	*N/A*	*02/23/23 08:33*	*02/27/23 17:01*	*1*
Unknown	*3.2*	*J*	*mg/Kg*	☼	*9.62*	*N/A*	*02/23/23 08:33*	*02/27/23 17:01*	*1*
Unknown	*2.8*	*J*	*mg/Kg*	☼	*9.95*	*N/A*	*02/23/23 08:33*	*02/27/23 17:01*	*1*
Unknown	*4.6*	*J*	*mg/Kg*	☼	*10.08*	*N/A*	*02/23/23 08:33*	*02/27/23 17:01*	*1*
Cyclohexane, 1-methyl-2-propyl-	*2.4*	*J N*	*mg/Kg*	☼	*10.34*	*4291-79-6*	*02/23/23 08:33*	*02/27/23 17:01*	*1*
Unknown	*3.8*	*J*	*mg/Kg*	☼	*10.40*	*N/A*	*02/23/23 08:33*	*02/27/23 17:01*	*1*
Unknown	*3.1*	*J*	*mg/Kg*	☼	*10.54*	*N/A*	*02/23/23 08:33*	*02/27/23 17:01*	*1*
Unknown	*4.7*	*J*	*mg/Kg*	☼	*10.71*	*N/A*	*02/23/23 08:33*	*02/27/23 17:01*	*1*
Unknown	*2.0*	*J*	*mg/Kg*	☼	*11.90*	*N/A*	*02/23/23 08:33*	*02/27/23 17:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*72 - 145*	*02/23/23 08:33*	*02/27/23 17:01*	*1*
Toluene-d8 (Surr)	*132*	*S1+*	*80 - 120*	*02/23/23 08:33*	*02/27/23 17:01*	*1*
Bromofluorobenzene	*84*		*75 - 139*	*02/23/23 08:33*	*02/27/23 17:01*	*1*
Dibromofluoromethane (Surr)	*109*		*73 - 139*	*02/23/23 08:33*	*02/27/23 17:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2-Chlorophenol	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2-Methylphenol	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
4-Methylphenol	0.022	U	0.36	0.022	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2-Nitrophenol	0.036	U	0.36	0.036	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2,4-Dimethylphenol	0.043	U	0.36	0.043	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2,4-Dichlorophenol	0.023	U	0.14	0.023	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
4-Chloro-3-methylphenol	0.020	U	0.36	0.020	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2,4,6-Trichlorophenol	0.046	U	0.14	0.046	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2,4,5-Trichlorophenol	0.037	U	0.36	0.037	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2,4-Dinitrotoluene	0.039	U	0.073	0.039	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
4-Nitrophenol	0.059	U	0.73	0.059	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
4,6-Dinitro-2-methylphenol	0.15	U *+	0.29	0.15	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Pentachlorophenol	0.074	U	0.29	0.074	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
N-Nitrosodimethylamine	0.033	U	0.36	0.033	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Bis(2-chloroethyl)ether	0.013	U	0.036	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
N-Nitrosodi-n-propylamine	0.026	U	0.036	0.026	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Hexachloroethane	0.012	U	0.036	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Nitrobenzene	0.020	U	0.036	0.020	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Naphthalene	0.0062	U	0.36	0.0062	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
4-Chloroaniline	0.064	U	0.36	0.064	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Hexachlorobutadiene	0.0077	U	0.073	0.0077	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2-Methylnaphthalene	0.010	U	0.36	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Hexachlorocyclopentadiene	0.032	U	0.36	0.032	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2-Chloronaphthalene	0.017	U	0.36	0.017	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1

Client Sample ID: SB1-436

Date Collected: 02/21/23 09:26
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-1

Matrix: Solid
Percent Solids: 91.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	0.027	U	0.36	0.027	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Dimethyl phthalate	0.082	U	0.36	0.082	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Acenaphthylene	0.010	U	0.36	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2,6-Dinitrotoluene	0.026	U	0.073	0.026	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
3-Nitroaniline	0.085	U	0.36	0.085	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Acenaphthene	0.010	U	0.36	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Dibenzofuran	0.012	U	0.36	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2,4-Dinitrophenol	0.18	U *+	0.29	0.18	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Diethyl phthalate	0.012	U	0.36	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
4-Chlorophenyl phenyl ether	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Fluorene	0.011	U	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
4-Nitroaniline	0.041	U	0.36	0.041	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
N-Nitrosodiphenylamine	0.030	U	0.36	0.030	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
4-Bromophenyl phenyl ether	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Hexachlorobenzene	0.017	U	0.036	0.017	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Phenanthrene	**0.10**	**J**	0.36	0.015	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Anthracene	**0.023**	**J**	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Carbazole	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Di-n-butyl phthalate	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Fluoranthene	**0.13**	**J**	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Pyrene	**0.14**	**J**	0.36	0.0089	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Butyl benzyl phthalate	0.017	U	0.36	0.017	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Benzo[a]anthracene	**0.071**		0.036	0.027	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Chrysene	**0.066**	**J**	0.36	0.015	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Bis(2-ethylhexyl) phthalate	0.019	U	0.36	0.019	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Di-n-octyl phthalate	0.019	U	0.36	0.019	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Benzo[b]fluoranthene	**0.073**		0.036	0.0093	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Benzo[k]fluoranthene	**0.031**	**J**	0.036	0.0071	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Benzo[a]pyrene	**0.067**		0.036	0.0096	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Indeno[1,2,3-cd]pyrene	**0.056**		0.036	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Dibenz(a,h)anthracene	0.016	U	0.036	0.016	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Benzo[g,h,i]perylene	**0.048**	**J**	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Diphenyl	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Acetophenone	0.018	U	0.36	0.018	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Benzaldehyde	0.059	U	0.36	0.059	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Caprolactam	0.056	U	0.36	0.056	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Atrazine	0.021	U	0.14	0.021	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2,2'-oxybis[1-chloropropane]	0.022	U	0.36	0.022	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
1,2,4,5-Tetrachlorobenzene	0.011	U	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
2,3,4,6-Tetrachlorophenol	0.024	U	0.36	0.024	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
3,3'-Dichlorobenzidine	0.054	U	0.14	0.054	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1
Bis(2-chloroethoxy)methane	0.028	U	0.36	0.028	mg/Kg	☼	02/23/23 22:13	02/24/23 16:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/23/23 22:13*	*02/24/23 16:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*69*		*16 - 125*	*02/23/23 22:13*	*02/24/23 16:07*	*1*
Phenol-d5	*66*		*23 - 120*	*02/23/23 22:13*	*02/24/23 16:07*	*1*
Terphenyl-d14	*88*		*25 - 126*	*02/23/23 22:13*	*02/24/23 16:07*	*1*

Client Sample ID: SB1-436

Date Collected: 02/21/23 09:26
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-1

Matrix: Solid
Percent Solids: 91.6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	84		10 - 123	02/23/23 22:13	02/24/23 16:07	1
2-Fluorophenol	63		18 - 123	02/23/23 22:13	02/24/23 16:07	1
2-Fluorobiphenyl	75		22 - 122	02/23/23 22:13	02/24/23 16:07	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0073	0.0012	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
4,4'-DDE	**0.0082**		0.0073	0.00086	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
4,4'-DDT	**0.012**		0.0073	0.0013	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Aldrin	0.0011	U	0.0073	0.0011	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
alpha-BHC	0.00074	U	0.0022	0.00074	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
cis-Chlordane	0.0012	U	0.0073	0.0012	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
beta-BHC	0.00082	U	0.0022	0.00082	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Chlordane	0.018	U	0.073	0.018	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
delta-BHC	0.00045	U	0.0022	0.00045	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Dieldrin	0.00095	U	0.0022	0.00095	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Endosulfan I	0.0011	U	0.0073	0.0011	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Endosulfan II	0.0019	U	0.0073	0.0019	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Endosulfan sulfate	0.00091	U	0.0073	0.00091	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Endrin	0.0010	U	0.0073	0.0010	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Endrin aldehyde	0.0017	U	0.0073	0.0017	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Endrin ketone	0.0014	U	0.0073	0.0014	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
gamma-BHC (Lindane)	0.00068	U	0.0022	0.00068	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
trans-Chlordane	0.0013	U	0.0073	0.0013	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Heptachlor	0.00086	U	0.0073	0.00086	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Heptachlor epoxide	0.0011	U	0.0073	0.0011	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Methoxychlor	0.0017	U	0.0073	0.0017	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1
Toxaphene	0.026	U	0.073	0.026	mg/Kg	☼	02/24/23 16:57	02/27/23 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		43 - 150	02/24/23 16:57	02/27/23 14:56	1
DCB Decachlorobiphenyl	102		43 - 150	02/24/23 16:57	02/27/23 14:56	1
Tetrachloro-m-xylene	102		26 - 137	02/24/23 16:57	02/27/23 14:56	1
Tetrachloro-m-xylene	100		26 - 137	02/24/23 16:57	02/27/23 14:56	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.073	0.019	mg/Kg	☼	02/24/23 16:49	02/28/23 13:26	1
Aroclor 1221	0.019	U	0.073	0.019	mg/Kg	☼	02/24/23 16:49	02/28/23 13:26	1
Aroclor 1232	0.019	U	0.073	0.019	mg/Kg	☼	02/24/23 16:49	02/28/23 13:26	1
Aroclor 1242	0.019	U	0.073	0.019	mg/Kg	☼	02/24/23 16:49	02/28/23 13:26	1
Aroclor 1248	0.019	U	0.073	0.019	mg/Kg	☼	02/24/23 16:49	02/28/23 13:26	1
Aroclor 1254	0.019	U	0.073	0.019	mg/Kg	☼	02/24/23 16:49	02/28/23 13:26	1
Aroclor 1260	0.019	U	0.073	0.019	mg/Kg	☼	02/24/23 16:49	02/28/23 13:26	1
Aroclor 1262	0.019	U	0.073	0.019	mg/Kg	☼	02/24/23 16:49	02/28/23 13:26	1
Aroclor 1268	0.019	U	0.073	0.019	mg/Kg	☼	02/24/23 16:49	02/28/23 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		10 - 150	02/24/23 16:49	02/28/23 13:26	1
DCB Decachlorobiphenyl	97		10 - 150	02/24/23 16:49	02/28/23 13:26	1

Client Sample ID: SB1-436

Date Collected: 02/21/23 09:26
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-1

Matrix: Solid
Percent Solids: 91.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*42 - 150*	*02/24/23 16:49*	*02/28/23 13:26*	*1*
Tetrachloro-m-xylene	*87*		*42 - 150*	*02/24/23 16:49*	*02/28/23 13:26*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.16	U	1.9	0.16	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Aluminum	**7060**		38.3	2.9	mg/Kg	☼	02/23/23 05:48	03/01/23 20:17	2
Arsenic	**10**		2.9	0.60	mg/Kg	☼	02/23/23 05:48	03/01/23 20:17	2
Barium	**133**		38.3	1.5	mg/Kg	☼	02/23/23 05:48	03/01/23 20:17	2
Beryllium	**0.075**	**J**	0.38	0.042	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Calcium	**13000**		958	40.9	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Cadmium	**0.37**	**J**	0.77	0.15	mg/Kg	☼	02/23/23 05:48	03/01/23 20:17	2
Cobalt	**7.1**	**J**	9.6	0.48	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Chromium	**22.8**		1.9	0.20	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Copper	**20.0**		4.8	0.35	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Iron	**21000**		28.7	5.8	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Potassium	**995**		958	47.0	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Magnesium	**2890**		958	56.9	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Manganese	**307**		2.9	0.23	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Sodium	**220**	**J**	958	53.5	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Nickel	**21.8**		7.7	0.27	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Lead	**260**		1.9	0.51	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Antimony	0.36	U	3.8	0.36	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Selenium	1.2	U	3.8	1.2	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Thallium	0.57	U	3.8	0.57	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Vanadium	**25.1**		9.6	0.51	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2
Zinc	**178**		5.7	0.33	mg/Kg	☼	02/23/23 05:48	02/27/23 23:39	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	15.9	U	50.0	15.9	ug/L		02/26/23 13:17	02/27/23 17:28	5
Arsenic	24.8	U	75.0	24.8	ug/L		02/26/23 13:17	02/27/23 17:28	5
Barium	**632**	**J**	1000	140	ug/L		02/26/23 13:17	02/27/23 17:28	5
Cadmium	**1.9**	**J**	20.0	1.8	ug/L		02/26/23 13:17	02/27/23 17:28	5
Chromium	24.9	U	50.0	24.9	ug/L		02/26/23 13:17	02/27/23 17:28	5
Lead	**127**		50.0	12.8	ug/L		02/26/23 13:17	02/27/23 17:28	5
Selenium	35.1	U	100	35.1	ug/L		02/26/23 13:17	02/27/23 17:28	5

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		02/27/23 12:56	02/27/23 15:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.093**		0.018	0.0086	mg/Kg	☼	02/24/23 00:20	02/24/23 04:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Burn Rate (SW846 1030)	2.20	U	2.20	2.20	mm/sec			02/28/23 13:37	1
Cyanide, Reactive (SW846 9014)	25.0	U	25.0	25.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1

Client Sample ID: SB1-436

Lab Sample ID: 460-275074-1
Date Collected: 02/21/23 09:26
Matrix: Solid
Date Received: 02/22/23 16:40
Percent Solids: 91.6

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive (SW846 9034)	20.0	U	20.0	20.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1
pH (SW846 9045D)	**8.8**	**HF**			SU			02/25/23 14:17	1
Temperature (SW846 9045D)	**22.3**	**HF**			Degrees C			02/25/23 14:17	1
Percent Moisture (EPA Moisture)	**8.4**		1.0	1.0	%			02/23/23 05:34	1
Percent Solids (EPA Moisture)	**91.6**		1.0	1.0	%			02/23/23 05:34	1

Client Sample ID: SB2-436

Lab Sample ID: 460-275074-2
Date Collected: 02/21/23 10:50
Matrix: Solid
Date Received: 02/22/23 16:40
Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.00056	U	0.0013	0.00056	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Bromomethane	0.0013	U	0.0026	0.0013	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Vinyl chloride	0.00070	U	0.0013	0.00070	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Chloroethane	0.00067	U	0.0013	0.00067	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Methylene Chloride	0.0015	U	0.0026	0.0015	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Acetone	0.0074	U	0.0077	0.0074	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Carbon disulfide	0.00034	U	0.0013	0.00034	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Trichlorofluoromethane	0.00052	U	0.0013	0.00052	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,1-Dichloroethene	0.00029	U	0.0013	0.00029	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,1-Dichloroethane	0.00027	U	0.0013	0.00027	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
trans-1,2-Dichloroethene	0.00032	U	0.0013	0.00032	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
cis-1,2-Dichloroethene	0.00046	U	0.0013	0.00046	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Chloroform	0.0013	U	0.0013	0.0013	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,2-Dichloroethane	0.00038	U	0.0013	0.00038	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
2-Butanone	0.00047	U	0.0064	0.00047	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,1,1-Trichloroethane	0.00030	U	0.0013	0.00030	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Carbon tetrachloride	0.00050	U	0.0013	0.00050	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Bromodichloromethane	0.00033	U	0.0013	0.00033	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,2-Dichloropropane	0.00054	U	0.0013	0.00054	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
cis-1,3-Dichloropropene	0.00035	U	0.0013	0.00035	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Trichloroethene	0.00041	U	0.0013	0.00041	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Dibromochloromethane	0.00025	U	0.0013	0.00025	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,1,2-Trichloroethane	0.00023	U	0.0013	0.00023	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Benzene	0.00033	U	0.0013	0.00033	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
trans-1,3-Dichloropropene	0.00034	U	0.0013	0.00034	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Bromoform	0.00055	U	0.0013	0.00055	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
4-Methyl-2-pentanone	0.0020	U	0.0064	0.0020	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
2-Hexanone	0.0022	U	0.0064	0.0022	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Tetrachloroethene	0.00039	U	0.0013	0.00039	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,1,2,2-Tetrachloroethane	0.00028	U	0.0013	0.00028	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Toluene	0.00030	U	0.0013	0.00030	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Chlorobenzene	0.00023	U	0.0013	0.00023	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Ethylbenzene	0.00026	U	0.0013	0.00026	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Styrene	0.00036	U	0.0013	0.00036	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
m&p-Xylene	0.00022	U	0.0013	0.00022	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
o-Xylene	0.00025	U	0.0013	0.00025	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Freon TF	0.00039	U	0.0013	0.00039	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
MTBE	0.00066	U	0.0013	0.00066	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1

Client Sample ID: SB2-436

Date Collected: 02/21/23 10:50
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-2

Matrix: Solid
Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.00028	U	0.0013	0.00028	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,2-Dibromoethane	0.00023	U	0.0013	0.00023	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,3-Dichlorobenzene	0.00047	U	0.0013	0.00047	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,4-Dichlorobenzene	0.00029	U	0.0013	0.00029	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,2-Dichlorobenzene	0.00047	U	0.0013	0.00047	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Dichlorodifluoromethane	0.00044	U	0.0013	0.00044	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,2,4-Trichlorobenzene	0.00046	U	0.0013	0.00046	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,4-Dioxane	0.012	U	0.13	0.012	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,2,3-Trichlorobenzene	0.00023	U	0.0013	0.00023	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
1,2-Dibromo-3-Chloropropane	0.00059	U	0.0013	0.00059	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Bromochloromethane	0.00036	U	0.0013	0.00036	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Isopropylbenzene	0.00037	U	0.0013	0.00037	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Methyl acetate	0.0055	U	0.0064	0.0055	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1
Methylcyclohexane	0.00064	U	0.0013	0.00064	mg/Kg	☼	02/23/23 08:35	02/28/23 09:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/23/23 08:35*	*02/28/23 09:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*72 - 145*	*02/23/23 08:35*	*02/28/23 09:52*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*	*02/23/23 08:35*	*02/28/23 09:52*	*1*
Bromofluorobenzene	*86*		*75 - 139*	*02/23/23 08:35*	*02/28/23 09:52*	*1*
Dibromofluoromethane (Surr)	*112*		*73 - 139*	*02/23/23 08:35*	*02/28/23 09:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2-Chlorophenol	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2-Methylphenol	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
4-Methylphenol	0.023	U	0.36	0.023	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2-Nitrophenol	0.037	U	0.36	0.037	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2,4-Dimethylphenol	0.044	U	0.36	0.044	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2,4-Dichlorophenol	0.023	U	0.15	0.023	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
4-Chloro-3-methylphenol	0.020	U	0.36	0.020	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2,4,6-Trichlorophenol	0.047	U	0.15	0.047	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2,4,5-Trichlorophenol	0.037	U	0.36	0.037	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2,4-Dinitrotoluene	0.039	U	0.074	0.039	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
4-Nitrophenol	0.060	U	0.74	0.060	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
4,6-Dinitro-2-methylphenol	0.15	U *+	0.29	0.15	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Pentachlorophenol	0.075	U	0.29	0.075	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
N-Nitrosodimethylamine	0.034	U	0.36	0.034	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Bis(2-chloroethyl)ether	0.013	U	0.036	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
N-Nitrosodi-n-propylamine	0.027	U	0.036	0.027	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Hexachloroethane	0.013	U	0.036	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Nitrobenzene	0.020	U	0.036	0.020	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Isophorone	0.11	U	0.15	0.11	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Naphthalene	0.0063	U	0.36	0.0063	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
4-Chloroaniline	0.065	U	0.36	0.065	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Hexachlorobutadiene	0.0078	U	0.074	0.0078	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2-Methylnaphthalene	0.010	U	0.36	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1

Client Sample ID: SB2-436

Date Collected: 02/21/23 10:50
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-2

Matrix: Solid
Percent Solids: 90.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	0.032	U	0.36	0.032	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2-Chloronaphthalene	0.017	U	0.36	0.017	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2-Nitroaniline	0.028	U	0.36	0.028	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Dimethyl phthalate	0.083	U	0.36	0.083	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Acenaphthylene	**0.015**	**J**	0.36	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2,6-Dinitrotoluene	0.026	U	0.074	0.026	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
3-Nitroaniline	0.087	U	0.36	0.087	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Acenaphthene	0.010	U	0.36	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Dibenzofuran	0.012	U	0.36	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2,4-Dinitrophenol	0.18	U *+	0.29	0.18	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Diethyl phthalate	0.012	U	0.36	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
4-Chlorophenyl phenyl ether	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Fluorene	0.011	U	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
4-Nitroaniline	0.042	U	0.36	0.042	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
N-Nitrosodiphenylamine	0.030	U	0.36	0.030	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
4-Bromophenyl phenyl ether	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Hexachlorobenzene	0.017	U	0.036	0.017	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Phenanthrene	**0.14**	**J**	0.36	0.015	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Anthracene	**0.025**	**J**	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Carbazole	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Di-n-butyl phthalate	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Fluoranthene	**0.24**	**J**	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Pyrene	**0.27**	**J**	0.36	0.0091	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Butyl benzyl phthalate	0.017	U	0.36	0.017	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Benzo[a]anthracene	**0.16**		0.036	0.028	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Chrysene	**0.18**	**J**	0.36	0.015	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Bis(2-ethylhexyl) phthalate	0.019	U	0.36	0.019	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Di-n-octyl phthalate	0.019	U	0.36	0.019	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Benzo[b]fluoranthene	**0.17**		0.036	0.0095	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Benzo[k]fluoranthene	**0.068**		0.036	0.0072	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Benzo[a]pyrene	**0.14**		0.036	0.0097	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Indeno[1,2,3-cd]pyrene	**0.098**		0.036	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Dibenz(a,h)anthracene	**0.017**	**J**	0.036	0.016	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Benzo[g,h,i]perylene	**0.094**	**J**	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Diphenyl	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Acetophenone	0.018	U	0.36	0.018	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Benzaldehyde	0.060	U	0.36	0.060	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Caprolactam	0.057	U	0.36	0.057	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Atrazine	0.022	U	0.15	0.022	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2,2'-oxybis[1-chloropropane]	0.022	U	0.36	0.022	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
1,2,4,5-Tetrachlorobenzene	0.011	U	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
2,3,4,6-Tetrachlorophenol	0.025	U	0.36	0.025	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
3,3'-Dichlorobenzidine	0.055	U	0.15	0.055	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1
Bis(2-chloroethoxy)methane	0.028	U	0.36	0.028	mg/Kg	☼	02/23/23 22:13	02/24/23 16:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/23/23 22:13*	*02/24/23 16:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*78*		*16 - 125*	*02/23/23 22:13*	*02/24/23 16:24*	*1*

Client Sample ID: SB2-436

Date Collected: 02/21/23 10:50
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-2

Matrix: Solid
Percent Solids: 90.3

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5	*75*		*23 - 120*	*02/23/23 22:13*	*02/24/23 16:24*	*1*
Terphenyl-d14	*91*		*25 - 126*	*02/23/23 22:13*	*02/24/23 16:24*	*1*
2,4,6-Tribromophenol	*91*		*10 - 123*	*02/23/23 22:13*	*02/24/23 16:24*	*1*
2-Fluorophenol	*74*		*18 - 123*	*02/23/23 22:13*	*02/24/23 16:24*	*1*
2-Fluorobiphenyl	*83*		*22 - 122*	*02/23/23 22:13*	*02/24/23 16:24*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0013	U	0.0074	0.0013	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
4,4'-DDE	0.00087	U	0.0074	0.00087	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
4,4'-DDT	**0.0043**	**J**	0.0074	0.0014	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Aldrin	0.0011	U	0.0074	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
alpha-BHC	0.00075	U	0.0022	0.00075	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
cis-Chlordane	0.0012	U	0.0074	0.0012	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
beta-BHC	0.00083	U	0.0022	0.00083	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Chlordane	0.018	U	0.074	0.018	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
delta-BHC	0.00045	U	0.0022	0.00045	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Dieldrin	0.00096	U	0.0022	0.00096	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Endosulfan I	0.0011	U	0.0074	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Endosulfan II	0.0019	U	0.0074	0.0019	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Endosulfan sulfate	0.00093	U	0.0074	0.00093	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Endrin	0.0011	U	0.0074	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Endrin aldehyde	0.0017	U	0.0074	0.0017	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Endrin ketone	0.0014	U	0.0074	0.0014	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
gamma-BHC (Lindane)	0.00069	U	0.0022	0.00069	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
trans-Chlordane	**0.0026**	**J**	0.0074	0.0013	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Heptachlor	0.00087	U	0.0074	0.00087	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Heptachlor epoxide	0.0011	U	0.0074	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Methoxychlor	0.0017	U	0.0074	0.0017	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1
Toxaphene	0.027	U	0.074	0.027	mg/Kg	☼	02/24/23 16:58	02/27/23 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*43 - 150*	*02/24/23 16:58*	*02/27/23 10:33*	*1*
DCB Decachlorobiphenyl	*93*		*43 - 150*	*02/24/23 16:58*	*02/27/23 10:33*	*1*
Tetrachloro-m-xylene	*98*		*26 - 137*	*02/24/23 16:58*	*02/27/23 10:33*	*1*
Tetrachloro-m-xylene	*93*		*26 - 137*	*02/24/23 16:58*	*02/27/23 10:33*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:32	1
Aroclor 1221	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:32	1
Aroclor 1232	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:32	1
Aroclor 1242	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:32	1
Aroclor 1248	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:32	1
Aroclor 1254	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:32	1
Aroclor 1260	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:32	1
Aroclor 1262	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:32	1
Aroclor 1268	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:32	1

Client Sample Results

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB2-436

Date Collected: 02/21/23 10:50
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-2

Matrix: Solid
Percent Solids: 90.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*117*		*10 - 150*	*02/24/23 16:53*	*02/27/23 20:32*	*1*
DCB Decachlorobiphenyl	*104*		*10 - 150*	*02/24/23 16:53*	*02/27/23 20:32*	*1*
Tetrachloro-m-xylene	*113*		*42 - 150*	*02/24/23 16:53*	*02/27/23 20:32*	*1*
Tetrachloro-m-xylene	*107*		*42 - 150*	*02/24/23 16:53*	*02/27/23 20:32*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**0.20**	**J**	2.0	0.16	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Aluminum	**5180**		39.6	3.0	mg/Kg	☼	02/23/23 05:48	03/01/23 20:21	2
Arsenic	**4.0**		3.0	0.62	mg/Kg	☼	02/23/23 05:48	03/01/23 20:21	2
Barium	**90.9**		39.6	1.5	mg/Kg	☼	02/23/23 05:48	03/01/23 20:21	2
Beryllium	**0.14**	**J**	0.40	0.044	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Calcium	**13700**		989	42.2	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Cadmium	0.15	U	0.79	0.15	mg/Kg	☼	02/23/23 05:48	03/01/23 20:21	2
Cobalt	**4.9**	**J**	9.9	0.49	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Chromium	**13.3**		2.0	0.21	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Copper	**23.2**		4.9	0.36	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Iron	**8330**		29.7	5.9	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Potassium	**1040**		989	48.6	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Magnesium	**2320**		989	58.8	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Manganese	**350**		3.0	0.24	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Sodium	**102**	**J**	989	55.3	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Nickel	**12.1**		7.9	0.28	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Lead	**159**		2.0	0.52	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Antimony	0.37	U	4.0	0.37	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Selenium	1.2	U	4.0	1.2	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Thallium	0.59	U	4.0	0.59	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Vanadium	**12.4**		9.9	0.53	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2
Zinc	**59.4**		5.9	0.34	mg/Kg	☼	02/23/23 05:48	02/27/23 23:43	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	15.9	U	50.0	15.9	ug/L		02/26/23 13:17	02/27/23 17:24	5
Arsenic	24.8	U	75.0	24.8	ug/L		02/26/23 13:17	02/27/23 17:24	5
Barium	**514**	**J**	1000	140	ug/L		02/26/23 13:17	02/27/23 17:24	5
Cadmium	**5.0**	**J**	20.0	1.8	ug/L		02/26/23 13:17	02/27/23 17:24	5
Chromium	24.9	U	50.0	24.9	ug/L		02/26/23 13:17	02/27/23 17:24	5
Lead	**385**		50.0	12.8	ug/L		02/26/23 13:17	02/27/23 17:24	5
Selenium	35.1	U	100	35.1	ug/L		02/26/23 13:17	02/27/23 17:24	5

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		02/27/23 12:56	02/27/23 15:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.47**		0.017	0.0079	mg/Kg	☼	02/24/23 00:20	02/24/23 05:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Burn Rate (SW846 1030)	2.20	U	2.20	2.20	mm/sec			02/28/23 13:37	1

Client Sample ID: SB2-436

Lab Sample ID: 460-275074-2
Date Collected: 02/21/23 10:50
Matrix: Solid
Date Received: 02/22/23 16:40
Percent Solids: 90.3

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9014)	25.0	U	25.0	25.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1
Sulfide, Reactive (SW846 9034)	**20.8**		20.0	20.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1
pH (SW846 9045D)	**8.2**	**HF**			SU			02/28/23 12:15	1
Temperature (SW846 9045D)	**23.1**	**HF**			Degrees C			02/28/23 12:15	1
Percent Moisture (EPA Moisture)	**9.7**		1.0	1.0	%			02/23/23 05:34	1
Percent Solids (EPA Moisture)	**90.3**		1.0	1.0	%			02/23/23 05:34	1

Client Sample ID: SB3-436

Lab Sample ID: 460-275074-3
Date Collected: 02/21/23 11:30
Matrix: Solid
Date Received: 02/22/23 16:40
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.00047	U	0.0011	0.00047	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Bromomethane	0.0011	U	0.0022	0.0011	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Vinyl chloride	0.00059	U	0.0011	0.00059	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Chloroethane	0.00056	U	0.0011	0.00056	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Methylene Chloride	0.0012	U	0.0022	0.0012	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Acetone	**0.0097**		0.0065	0.0062	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Carbon disulfide	0.00029	U	0.0011	0.00029	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Trichlorofluoromethane	0.00044	U	0.0011	0.00044	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,1-Dichloroethene	0.00024	U	0.0011	0.00024	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,1-Dichloroethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
trans-1,2-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
cis-1,2-Dichloroethene	0.00039	U	0.0011	0.00039	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Chloroform	0.0010	U	0.0011	0.0010	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,2-Dichloroethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
2-Butanone	0.00040	U	0.0054	0.00040	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,1,1-Trichloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Carbon tetrachloride	0.00042	U	0.0011	0.00042	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Bromodichloromethane	0.00028	U	0.0011	0.00028	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,2-Dichloropropane	0.00046	U	0.0011	0.00046	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
cis-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Trichloroethene	0.00035	U	0.0011	0.00035	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Dibromochloromethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,1,2-Trichloroethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Benzene	0.00028	U	0.0011	0.00028	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
trans-1,3-Dichloropropene	0.00029	U	0.0011	0.00029	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Bromoform	0.00046	U	0.0011	0.00046	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
4-Methyl-2-pentanone	0.0017	U	0.0054	0.0017	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
2-Hexanone	0.0018	U	0.0054	0.0018	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Tetrachloroethene	0.00033	U	0.0011	0.00033	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,1,2,2-Tetrachloroethane	0.00023	U	0.0011	0.00023	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Toluene	0.00025	U	0.0011	0.00025	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Chlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Ethylbenzene	0.00021	U	0.0011	0.00021	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Styrene	0.00030	U	0.0011	0.00030	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
m&p-Xylene	0.00019	U	0.0011	0.00019	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
o-Xylene	0.00021	U	0.0011	0.00021	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Freon TF	0.00032	U	0.0011	0.00032	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1

Client Sample ID: SB3-436

Date Collected: 02/21/23 11:30
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-3

Matrix: Solid
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	0.00055	U	0.0011	0.00055	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Cyclohexane	0.00024	U	0.0011	0.00024	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,2-Dibromoethane	0.00019	U	0.0011	0.00019	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,3-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,4-Dichlorobenzene	0.00024	U	0.0011	0.00024	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,2-Dichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Dichlorodifluoromethane	0.00036	U	0.0011	0.00036	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,2,4-Trichlorobenzene	0.00039	U	0.0011	0.00039	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,4-Dioxane	0.0099	U	0.11	0.0099	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,2,3-Trichlorobenzene	0.00019	U	0.0011	0.00019	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
1,2-Dibromo-3-Chloropropane	0.00050	U	0.0011	0.00050	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Bromochloromethane	0.00030	U	0.0011	0.00030	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Isopropylbenzene	0.00031	U	0.0011	0.00031	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Methyl acetate	0.0046	U	0.0054	0.0046	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1
Methylcyclohexane	0.00054	U	0.0011	0.00054	mg/Kg	☼	02/23/23 08:35	02/28/23 08:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/23/23 08:35*	*02/28/23 08:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*72 - 145*	*02/23/23 08:35*	*02/28/23 08:45*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*	*02/23/23 08:35*	*02/28/23 08:45*	*1*
Bromofluorobenzene	*86*		*75 - 139*	*02/23/23 08:35*	*02/28/23 08:45*	*1*
Dibromofluoromethane (Surr)	*108*		*73 - 139*	*02/23/23 08:35*	*02/28/23 08:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2-Chlorophenol	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2-Methylphenol	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
4-Methylphenol	0.023	U	0.36	0.023	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2-Nitrophenol	0.036	U	0.36	0.036	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2,4-Dimethylphenol	0.043	U	0.36	0.043	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2,4-Dichlorophenol	0.023	U	0.15	0.023	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
4-Chloro-3-methylphenol	0.020	U	0.36	0.020	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2,4,6-Trichlorophenol	0.047	U	0.15	0.047	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2,4,5-Trichlorophenol	0.037	U	0.36	0.037	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2,4-Dinitrotoluene	0.039	U	0.073	0.039	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
4-Nitrophenol	0.059	U	0.73	0.059	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
4,6-Dinitro-2-methylphenol	0.15	U *+	0.29	0.15	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Pentachlorophenol	0.074	U	0.29	0.074	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
N-Nitrosodimethylamine	0.034	U	0.36	0.034	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Bis(2-chloroethyl)ether	0.013	U	0.036	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
N-Nitrosodi-n-propylamine	0.026	U	0.036	0.026	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Hexachloroethane	0.012	U	0.036	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Nitrobenzene	0.020	U	0.036	0.020	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Isophorone	0.10	U	0.15	0.10	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Naphthalene	0.0063	U	0.36	0.0063	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
4-Chloroaniline	0.064	U	0.36	0.064	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Hexachlorobutadiene	0.0077	U	0.073	0.0077	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1

Client Sample ID: SB3-436

Date Collected: 02/21/23 11:30
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-3

Matrix: Solid
Percent Solids: 91.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.010	U	0.36	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Hexachlorocyclopentadiene	0.032	U	0.36	0.032	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2-Chloronaphthalene	0.017	U	0.36	0.017	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2-Nitroaniline	0.028	U	0.36	0.028	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Dimethyl phthalate	0.082	U	0.36	0.082	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Acenaphthylene	0.010	U	0.36	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2,6-Dinitrotoluene	0.026	U	0.073	0.026	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
3-Nitroaniline	0.086	U	0.36	0.086	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Acenaphthene	0.010	U	0.36	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Dibenzofuran	0.012	U	0.36	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2,4-Dinitrophenol	0.18	U *+	0.29	0.18	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Diethyl phthalate	0.012	U	0.36	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
4-Chlorophenyl phenyl ether	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Fluorene	0.011	U	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
4-Nitroaniline	0.042	U	0.36	0.042	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
N-Nitrosodiphenylamine	0.030	U	0.36	0.030	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
4-Bromophenyl phenyl ether	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Hexachlorobenzene	0.017	U	0.036	0.017	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Phenanthrene	**0.045**	**J**	0.36	0.015	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Anthracene	0.011	U	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Carbazole	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Di-n-butyl phthalate	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Fluoranthene	**0.096**	**J**	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Pyrene	**0.11**	**J**	0.36	0.0090	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Butyl benzyl phthalate	0.017	U	0.36	0.017	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Benzo[a]anthracene	**0.059**		0.036	0.027	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Chrysene	**0.063**	**J**	0.36	0.015	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Bis(2-ethylhexyl) phthalate	0.019	U	0.36	0.019	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Di-n-octyl phthalate	0.019	U	0.36	0.019	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Benzo[b]fluoranthene	**0.058**		0.036	0.0094	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Benzo[k]fluoranthene	**0.033**	**J**	0.036	0.0071	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Benzo[a]pyrene	**0.057**		0.036	0.0097	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Indeno[1,2,3-cd]pyrene	**0.031**	**J**	0.036	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Dibenz(a,h)anthracene	0.016	U	0.036	0.016	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Benzo[g,h,i]perylene	**0.022**	**J**	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Diphenyl	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Acetophenone	0.018	U	0.36	0.018	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Benzaldehyde	0.060	U	0.36	0.060	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Caprolactam	0.056	U	0.36	0.056	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Atrazine	0.021	U	0.15	0.021	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2,2'-oxybis[1-chloropropane]	0.022	U	0.36	0.022	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
1,2,4,5-Tetrachlorobenzene	0.011	U	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
2,3,4,6-Tetrachlorophenol	0.025	U	0.36	0.025	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
3,3'-Dichlorobenzidine	0.055	U	0.15	0.055	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1
Bis(2-chloroethoxy)methane	0.028	U	0.36	0.028	mg/Kg	☼	02/23/23 22:13	02/24/23 14:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/23/23 22:13*	*02/24/23 14:54*	*1*

Client Sample Results

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB3-436

Date Collected: 02/21/23 11:30
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-3

Matrix: Solid
Percent Solids: 91.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*74*		*16 - 125*	*02/23/23 22:13*	*02/24/23 14:54*	*1*
Phenol-d5	*64*		*23 - 120*	*02/23/23 22:13*	*02/24/23 14:54*	*1*
Terphenyl-d14	*98*		*25 - 126*	*02/23/23 22:13*	*02/24/23 14:54*	*1*
2,4,6-Tribromophenol	*75*		*10 - 123*	*02/23/23 22:13*	*02/24/23 14:54*	*1*
2-Fluorophenol	*60*		*18 - 123*	*02/23/23 22:13*	*02/24/23 14:54*	*1*
2-Fluorobiphenyl	*88*		*22 - 122*	*02/23/23 22:13*	*02/24/23 14:54*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**0.020**		0.0073	0.0012	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
4,4'-DDE	**0.14**		0.0073	0.00087	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
4,4'-DDT	**0.11**		0.0073	0.0013	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Aldrin	0.0011	U	0.0073	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
alpha-BHC	0.00075	U	0.0022	0.00075	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
cis-Chlordane	0.0012	U	0.0073	0.0012	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
beta-BHC	0.00082	U	0.0022	0.00082	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Chlordane	0.018	U	0.073	0.018	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
delta-BHC	0.00045	U	0.0022	0.00045	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Dieldrin	0.00095	U	0.0022	0.00095	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Endosulfan I	0.0011	U	0.0073	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Endosulfan II	0.0019	U	0.0073	0.0019	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Endosulfan sulfate	0.00092	U	0.0073	0.00092	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Endrin	0.0011	U	0.0073	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Endrin aldehyde	0.0017	U	0.0073	0.0017	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Endrin ketone	0.0014	U	0.0073	0.0014	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
gamma-BHC (Lindane)	0.00068	U	0.0022	0.00068	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
trans-Chlordane	0.0013	U	0.0073	0.0013	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Heptachlor	0.00087	U	0.0073	0.00087	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Heptachlor epoxide	0.0011	U	0.0073	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Methoxychlor	0.0017	U	0.0073	0.0017	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1
Toxaphene	0.027	U	0.073	0.027	mg/Kg	☼	02/24/23 16:58	02/27/23 10:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*43 - 150*	*02/24/23 16:58*	*02/27/23 10:45*	*1*
DCB Decachlorobiphenyl	*79*		*43 - 150*	*02/24/23 16:58*	*02/27/23 10:45*	*1*
Tetrachloro-m-xylene	*81*		*26 - 137*	*02/24/23 16:58*	*02/27/23 10:45*	*1*
Tetrachloro-m-xylene	*77*		*26 - 137*	*02/24/23 16:58*	*02/27/23 10:45*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.020	U	0.073	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:48	1
Aroclor 1221	0.020	U	0.073	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:48	1
Aroclor 1232	0.020	U	0.073	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:48	1
Aroclor 1242	0.020	U	0.073	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:48	1
Aroclor 1248	0.020	U	0.073	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:48	1
Aroclor 1254	0.020	U	0.073	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:48	1
Aroclor 1260	0.020	U	0.073	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:48	1
Aroclor 1262	0.020	U	0.073	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:48	1
Aroclor 1268	0.020	U	0.073	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 20:48	1

Client Sample Results

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB3-436

Date Collected: 02/21/23 11:30
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-3

Matrix: Solid
Percent Solids: 91.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*113*		*10 - 150*	*02/24/23 16:53*	*02/27/23 20:48*	*1*
DCB Decachlorobiphenyl	*104*		*10 - 150*	*02/24/23 16:53*	*02/27/23 20:48*	*1*
Tetrachloro-m-xylene	*111*		*42 - 150*	*02/24/23 16:53*	*02/27/23 20:48*	*1*
Tetrachloro-m-xylene	*107*		*42 - 150*	*02/24/23 16:53*	*02/27/23 20:48*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.16	U	1.9	0.16	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Aluminum	**4950**		38.2	2.9	mg/Kg	☼	02/23/23 05:48	03/01/23 20:25	2
Arsenic	**2.5**	**J**	2.9	0.60	mg/Kg	☼	02/23/23 05:48	03/01/23 20:25	2
Barium	**88.3**		38.2	1.5	mg/Kg	☼	02/23/23 05:48	03/01/23 20:25	2
Beryllium	0.042	U	0.38	0.042	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Calcium	**5660**		955	40.8	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Cadmium	0.15	U	0.76	0.15	mg/Kg	☼	02/23/23 05:48	03/01/23 20:25	2
Cobalt	**5.5**	**J**	9.6	0.48	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Chromium	**12.9**		1.9	0.20	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Copper	**14.6**		4.8	0.35	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Iron	**10300**		28.7	5.7	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Potassium	**983**		955	46.9	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Magnesium	**3460**		955	56.7	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Manganese	**226**		2.9	0.23	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Sodium	**130**	**J**	955	53.4	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Nickel	**23.7**		7.6	0.27	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Lead	**49.3**		1.9	0.50	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Antimony	0.36	U	3.8	0.36	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Selenium	1.2	U	3.8	1.2	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Thallium	0.57	U	3.8	0.57	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Vanadium	**15.9**		9.6	0.51	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2
Zinc	**59.8**		5.7	0.33	mg/Kg	☼	02/23/23 05:48	02/27/23 23:47	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	15.9	U	50.0	15.9	ug/L		02/26/23 13:17	02/27/23 16:25	5
Arsenic	24.8	U	75.0	24.8	ug/L		02/26/23 13:17	02/27/23 16:25	5
Barium	**955**	**J**	1000	140	ug/L		02/26/23 13:17	02/27/23 16:25	5
Cadmium	**3.1**	**J**	20.0	1.8	ug/L		02/26/23 13:17	02/27/23 16:25	5
Chromium	24.9	U	50.0	24.9	ug/L		02/26/23 13:17	02/27/23 16:25	5
Lead	**639**		50.0	12.8	ug/L		02/26/23 13:17	02/27/23 16:25	5
Selenium	35.1	U	100	35.1	ug/L		02/26/23 13:17	02/27/23 16:25	5

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		02/27/23 12:56	02/27/23 15:33	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.088**		0.017	0.0081	mg/Kg	☼	02/24/23 00:20	02/24/23 05:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Burn Rate (SW846 1030)	2.20	U	2.20	2.20	mm/sec			02/28/23 13:37	1

Client Sample ID: SB3-436

Lab Sample ID: 460-275074-3
Date Collected: 02/21/23 11:30
Matrix: Solid
Date Received: 02/22/23 16:40
Percent Solids: 91.0

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9014)	25.0	U	25.0	25.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1
Sulfide, Reactive (SW846 9034)	20.0	U	20.0	20.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1
pH (SW846 9045D)	**8.9**	**HF**			SU			02/28/23 12:16	1
Temperature (SW846 9045D)	**22.4**	**HF**			Degrees C			02/28/23 12:16	1
Percent Moisture (EPA Moisture)	**9.0**		1.0	1.0	%			02/23/23 05:34	1
Percent Solids (EPA Moisture)	**91.0**		1.0	1.0	%			02/23/23 05:34	1

Client Sample ID: SB4-301

Lab Sample ID: 460-275074-4
Date Collected: 02/21/23 13:07
Matrix: Solid
Date Received: 02/22/23 16:40
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.00054	U	0.0012	0.00054	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Bromomethane	0.0012	U	0.0025	0.0012	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Vinyl chloride	0.00067	U	0.0012	0.00067	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Chloroethane	0.00064	U	0.0012	0.00064	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Methylene Chloride	0.0014	U	0.0025	0.0014	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Acetone	0.0070	U	0.0074	0.0070	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Carbon disulfide	0.00033	U	0.0012	0.00033	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Trichlorofluoromethane	0.00050	U	0.0012	0.00050	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,1-Dichloroethene	0.00028	U	0.0012	0.00028	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,1-Dichloroethane	0.00025	U	0.0012	0.00025	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
trans-1,2-Dichloroethene	0.00030	U	0.0012	0.00030	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
cis-1,2-Dichloroethene	0.00044	U	0.0012	0.00044	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Chloroform	0.0012	U	0.0012	0.0012	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,2-Dichloroethane	0.00036	U	0.0012	0.00036	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
2-Butanone	0.00045	U	0.0062	0.00045	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,1,1-Trichloroethane	0.00029	U	0.0012	0.00029	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Carbon tetrachloride	0.00048	U	0.0012	0.00048	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Bromodichloromethane	0.00032	U	0.0012	0.00032	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,2-Dichloropropane	0.00052	U	0.0012	0.00052	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
cis-1,3-Dichloropropene	0.00034	U	0.0012	0.00034	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Trichloroethene	0.00040	U	0.0012	0.00040	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Dibromochloromethane	0.00024	U	0.0012	0.00024	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,1,2-Trichloroethane	0.00022	U	0.0012	0.00022	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Benzene	0.00032	U	0.0012	0.00032	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
trans-1,3-Dichloropropene	0.00033	U	0.0012	0.00033	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Bromoform	0.00052	U	0.0012	0.00052	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
4-Methyl-2-pentanone	0.0019	U	0.0062	0.0019	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
2-Hexanone	0.0021	U	0.0062	0.0021	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Tetrachloroethene	0.00038	U	0.0012	0.00038	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,1,2,2-Tetrachloroethane	0.00026	U	0.0012	0.00026	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Toluene	0.00029	U	0.0012	0.00029	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Chlorobenzene	0.00022	U	0.0012	0.00022	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Ethylbenzene	0.00025	U	0.0012	0.00025	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Styrene	0.00034	U	0.0012	0.00034	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
m&p-Xylene	0.00021	U	0.0012	0.00021	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
o-Xylene	0.00024	U	0.0012	0.00024	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Freon TF	0.00037	U	0.0012	0.00037	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1

Client Sample Results

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB4-301

Date Collected: 02/21/23 13:07
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-4

Matrix: Solid
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	0.00063	U	0.0012	0.00063	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Cyclohexane	0.00027	U	0.0012	0.00027	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,2-Dibromoethane	0.00022	U	0.0012	0.00022	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,3-Dichlorobenzene	0.00045	U	0.0012	0.00045	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,4-Dichlorobenzene	0.00028	U	0.0012	0.00028	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,2-Dichlorobenzene	0.00044	U	0.0012	0.00044	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Dichlorodifluoromethane	0.00042	U	0.0012	0.00042	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,2,4-Trichlorobenzene	0.00044	U	0.0012	0.00044	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,4-Dioxane	0.011	U	0.12	0.011	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,2,3-Trichlorobenzene	0.00022	U	0.0012	0.00022	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
1,2-Dibromo-3-Chloropropane	0.00057	U	0.0012	0.00057	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Bromochloromethane	0.00035	U	0.0012	0.00035	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Isopropylbenzene	0.00035	U	0.0012	0.00035	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Methyl acetate	0.0053	U	0.0062	0.0053	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1
Methylcyclohexane	0.00061	U	0.0012	0.00061	mg/Kg	☼	02/23/23 08:36	02/28/23 09:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/23/23 08:36*	*02/28/23 09:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*72 - 145*	*02/23/23 08:36*	*02/28/23 09:07*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*02/23/23 08:36*	*02/28/23 09:07*	*1*
Bromofluorobenzene	*86*		*75 - 139*	*02/23/23 08:36*	*02/28/23 09:07*	*1*
Dibromofluoromethane (Surr)	*113*		*73 - 139*	*02/23/23 08:36*	*02/28/23 09:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2-Chlorophenol	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2-Methylphenol	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
4-Methylphenol	0.023	U	0.36	0.023	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2-Nitrophenol	0.036	U	0.36	0.036	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2,4-Dimethylphenol	0.043	U	0.36	0.043	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2,4-Dichlorophenol	0.023	U	0.15	0.023	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
4-Chloro-3-methylphenol	0.020	U	0.36	0.020	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2,4,6-Trichlorophenol	0.047	U	0.15	0.047	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2,4,5-Trichlorophenol	0.037	U	0.36	0.037	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2,4-Dinitrotoluene	0.039	U	0.074	0.039	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
4-Nitrophenol	0.059	U	0.74	0.059	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
4,6-Dinitro-2-methylphenol	0.15	U *+	0.29	0.15	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Pentachlorophenol	0.075	U	0.29	0.075	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
N-Nitrosodimethylamine	0.034	U	0.36	0.034	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Bis(2-chloroethyl)ether	0.013	U	0.036	0.013	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
N-Nitrosodi-n-propylamine	0.026	U	0.036	0.026	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Hexachloroethane	0.012	U	0.036	0.012	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Nitrobenzene	0.020	U	0.036	0.020	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Isophorone	0.11	U	0.15	0.11	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Naphthalene	**0.011**	**J**	0.36	0.0063	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
4-Chloroaniline	0.065	U	0.36	0.065	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Hexachlorobutadiene	0.0077	U	0.074	0.0077	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1

Client Sample ID: SB4-301

Date Collected: 02/21/23 13:07
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-4

Matrix: Solid
Percent Solids: 90.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.010	U	0.36	0.010	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Hexachlorocyclopentadiene	0.032	U	0.36	0.032	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2-Chloronaphthalene	0.017	U	0.36	0.017	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2-Nitroaniline	0.028	U	0.36	0.028	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Dimethyl phthalate	0.083	U	0.36	0.083	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Acenaphthylene	**0.063**	**J**	0.36	0.010	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2,6-Dinitrotoluene	0.026	U	0.074	0.026	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
3-Nitroaniline	0.086	U	0.36	0.086	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Acenaphthene	**0.015**	**J**	0.36	0.010	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Dibenzofuran	0.012	U	0.36	0.012	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2,4-Dinitrophenol	0.18	U *+	0.29	0.18	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Diethyl phthalate	0.012	U	0.36	0.012	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
4-Chlorophenyl phenyl ether	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Fluorene	**0.018**	**J**	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
4-Nitroaniline	0.042	U	0.36	0.042	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
N-Nitrosodiphenylamine	0.030	U	0.36	0.030	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
4-Bromophenyl phenyl ether	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Hexachlorobenzene	0.017	U	0.036	0.017	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Phenanthrene	**0.25**	**J**	0.36	0.015	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Anthracene	**0.052**	**J**	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Carbazole	**0.037**	**J**	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Di-n-butyl phthalate	0.014	U	0.36	0.014	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Fluoranthene	**0.44**		0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Pyrene	**0.41**		0.36	0.0090	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Butyl benzyl phthalate	0.017	U	0.36	0.017	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Benzo[a]anthracene	**0.28**		0.036	0.027	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Chrysene	**0.30**	**J**	0.36	0.015	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Bis(2-ethylhexyl) phthalate	0.019	U	0.36	0.019	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Di-n-octyl phthalate	0.019	U	0.36	0.019	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Benzo[b]fluoranthene	**0.34**		0.036	0.0094	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Benzo[k]fluoranthene	**0.17**		0.036	0.0071	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Benzo[a]pyrene	**0.28**		0.036	0.0097	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Indeno[1,2,3-cd]pyrene	**0.22**		0.036	0.014	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Dibenz(a,h)anthracene	**0.051**		0.036	0.016	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Benzo[g,h,i]perylene	**0.18**	**J**	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Diphenyl	0.013	U	0.36	0.013	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Acetophenone	0.018	U	0.36	0.018	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Benzaldehyde	0.060	U	0.36	0.060	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Caprolactam	0.057	U	0.36	0.057	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Atrazine	0.021	U	0.15	0.021	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2,2'-oxybis[1-chloropropane]	0.022	U	0.36	0.022	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
1,2,4,5-Tetrachlorobenzene	0.011	U	0.36	0.011	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
2,3,4,6-Tetrachlorophenol	0.025	U	0.36	0.025	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
3,3'-Dichlorobenzidine	0.055	U	0.15	0.055	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1
Bis(2-chloroethoxy)methane	0.028	U	0.36	0.028	mg/Kg	☼	02/23/23 22:13	02/25/23 09:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/23/23 22:13*	*02/25/23 09:35*	*1*

Client Sample Results

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB4-301

Date Collected: 02/21/23 13:07
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-4

Matrix: Solid
Percent Solids: 90.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	74		16 - 125	02/23/23 22:13	02/25/23 09:35	1
Phenol-d5	72		23 - 120	02/23/23 22:13	02/25/23 09:35	1
Terphenyl-d14	89		25 - 126	02/23/23 22:13	02/25/23 09:35	1
2,4,6-Tribromophenol	86		10 - 123	02/23/23 22:13	02/25/23 09:35	1
2-Fluorophenol	69		18 - 123	02/23/23 22:13	02/25/23 09:35	1
2-Fluorobiphenyl	80		22 - 122	02/23/23 22:13	02/25/23 09:35	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**0.0073**	**J**	0.0074	0.0013	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
4,4'-DDE	**0.012**		0.0074	0.00087	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
4,4'-DDT	**0.022**		0.0074	0.0014	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Aldrin	0.0011	U	0.0074	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
alpha-BHC	0.00075	U	0.0022	0.00075	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
cis-Chlordane	**0.0057**	**J p**	0.0074	0.0012	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
beta-BHC	0.00083	U	0.0022	0.00083	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Chlordane	0.018	U	0.074	0.018	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
delta-BHC	0.00045	U	0.0022	0.00045	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Dieldrin	0.00096	U	0.0022	0.00096	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Endosulfan I	0.0011	U	0.0074	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Endosulfan II	0.0019	U	0.0074	0.0019	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Endosulfan sulfate	0.00092	U	0.0074	0.00092	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Endrin	0.0011	U	0.0074	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Endrin aldehyde	0.0017	U	0.0074	0.0017	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Endrin ketone	0.0014	U	0.0074	0.0014	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
gamma-BHC (Lindane)	0.00068	U	0.0022	0.00068	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
trans-Chlordane	**0.0051**	**J**	0.0074	0.0013	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Heptachlor	0.00087	U	0.0074	0.00087	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Heptachlor epoxide	0.0011	U	0.0074	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Methoxychlor	0.0017	U	0.0074	0.0017	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1
Toxaphene	0.027	U	0.074	0.027	mg/Kg	☼	02/24/23 16:58	02/27/23 10:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	107		43 - 150	02/24/23 16:58	02/27/23 10:58	1
DCB Decachlorobiphenyl	99		43 - 150	02/24/23 16:58	02/27/23 10:58	1
Tetrachloro-m-xylene	95		26 - 137	02/24/23 16:58	02/27/23 10:58	1
Tetrachloro-m-xylene	91		26 - 137	02/24/23 16:58	02/27/23 10:58	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 21:05	1
Aroclor 1221	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 21:05	1
Aroclor 1232	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 21:05	1
Aroclor 1242	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 21:05	1
Aroclor 1248	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 21:05	1
Aroclor 1254	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 21:05	1
Aroclor 1260	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 21:05	1
Aroclor 1262	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 21:05	1
Aroclor 1268	0.020	U	0.074	0.020	mg/Kg	☼	02/24/23 16:53	02/27/23 21:05	1

Client Sample Results

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB4-301

Date Collected: 02/21/23 13:07
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-4

Matrix: Solid
Percent Solids: 90.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*115*		*10 - 150*	*02/24/23 16:53*	*02/27/23 21:05*	*1*
DCB Decachlorobiphenyl	*102*		*10 - 150*	*02/24/23 16:53*	*02/27/23 21:05*	*1*
Tetrachloro-m-xylene	*97*		*42 - 150*	*02/24/23 16:53*	*02/27/23 21:05*	*1*
Tetrachloro-m-xylene	*94*		*42 - 150*	*02/24/23 16:53*	*02/27/23 21:05*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**0.18**	**J**	1.7	0.14	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Aluminum	**6040**		34.8	2.6	mg/Kg	☼	02/23/23 05:48	03/01/23 20:28	2
Arsenic	**4.7**		2.6	0.54	mg/Kg	☼	02/23/23 05:48	03/01/23 20:28	2
Barium	**256**		34.8	1.3	mg/Kg	☼	02/23/23 05:48	03/01/23 20:28	2
Beryllium	**0.15**	**J**	0.35	0.038	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Calcium	**11500**		869	37.1	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Cadmium	**0.34**	**J**	0.70	0.13	mg/Kg	☼	02/23/23 05:48	03/01/23 20:28	2
Cobalt	**4.4**	**J**	8.7	0.43	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Chromium	**12.6**		1.7	0.19	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Copper	**22.5**		4.3	0.32	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Iron	**8860**		26.1	5.2	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Potassium	**855**	**J**	869	42.7	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Magnesium	**2770**		869	51.6	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Manganese	**260**		2.6	0.21	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Sodium	**345**	**J**	869	48.6	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Nickel	**11.3**		7.0	0.24	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Lead	**412**		1.7	0.46	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Antimony	0.33	U	3.5	0.33	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Selenium	1.1	U	3.5	1.1	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Thallium	0.52	U	3.5	0.52	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Vanadium	**14.6**		8.7	0.47	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2
Zinc	**186**		5.2	0.30	mg/Kg	☼	02/23/23 05:48	02/27/23 23:51	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	15.9	U	50.0	15.9	ug/L		02/26/23 13:17	02/27/23 17:16	5
Arsenic	24.8	U	75.0	24.8	ug/L		02/26/23 13:17	02/27/23 17:16	5
Barium	**893**	**J**	1000	140	ug/L		02/26/23 13:17	02/27/23 17:16	5
Cadmium	**7.2**	**J**	20.0	1.8	ug/L		02/26/23 13:17	02/27/23 17:16	5
Chromium	24.9	U	50.0	24.9	ug/L		02/26/23 13:17	02/27/23 17:16	5
Lead	**2120**		50.0	12.8	ug/L		02/26/23 13:17	02/27/23 17:16	5
Selenium	35.1	U	100	35.1	ug/L		02/26/23 13:17	02/27/23 17:16	5

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		02/27/23 12:56	02/27/23 15:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.63**		0.017	0.0081	mg/Kg	☼	02/24/23 00:48	02/24/23 05:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Burn Rate (SW846 1030)	2.20	U	2.20	2.20	mm/sec			02/28/23 13:37	1

Client Sample ID: SB4-301

Lab Sample ID: 460-275074-4
Date Collected: 02/21/23 13:07
Matrix: Solid
Date Received: 02/22/23 16:40
Percent Solids: 90.6

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9014)	25.0	U	25.0	25.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1
Sulfide, Reactive (SW846 9034)	20.0	U	20.0	20.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1
pH (SW846 9045D)	**8.5**	**HF**			SU			02/28/23 12:17	1
Temperature (SW846 9045D)	**22.9**	**HF**			Degrees C			02/28/23 12:17	1
Percent Moisture (EPA Moisture)	**9.4**		1.0	1.0	%			02/23/23 05:34	1
Percent Solids (EPA Moisture)	**90.6**		1.0	1.0	%			02/23/23 05:34	1

Client Sample ID: SB5-301

Lab Sample ID: 460-275074-5
Date Collected: 02/21/23 13:45
Matrix: Solid
Date Received: 02/22/23 16:40
Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.00045	U	0.0010	0.00045	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Bromomethane	0.0010	U	0.0021	0.0010	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Vinyl chloride	0.00056	U	0.0010	0.00056	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Chloroethane	0.00054	U	0.0010	0.00054	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Methylene Chloride	0.0012	U	0.0021	0.0012	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Acetone	0.0059	U	0.0062	0.0059	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Trichlorofluoromethane	0.00042	U	0.0010	0.00042	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
cis-1,2-Dichloroethene	0.00037	U	0.0010	0.00037	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Chloroform	0.0010	U	0.0010	0.0010	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
2-Butanone	0.00038	U	0.0051	0.00038	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,1,1-Trichloroethane	0.00024	U	0.0010	0.00024	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Carbon tetrachloride	0.00040	U	0.0010	0.00040	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,2-Dichloropropane	0.00044	U	0.0010	0.00044	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
cis-1,3-Dichloropropene	0.00028	U	0.0010	0.00028	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Trichloroethene	0.00033	U	0.0010	0.00033	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Dibromochloromethane	0.00020	U	0.0010	0.00020	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Benzene	0.00027	U	0.0010	0.00027	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Bromoform	0.00044	U	0.0010	0.00044	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
4-Methyl-2-pentanone	0.0016	U	0.0051	0.0016	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
2-Hexanone	0.0018	U	0.0051	0.0018	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,1,2,2-Tetrachloroethane	0.00022	U	0.0010	0.00022	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Toluene	0.00024	U	0.0010	0.00024	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Styrene	0.00029	U	0.0010	0.00029	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
m&p-Xylene	0.00018	U	0.0010	0.00018	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
o-Xylene	0.00020	U	0.0010	0.00020	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Freon TF	0.00031	U	0.0010	0.00031	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1

Client Sample ID: SB5-301

Date Collected: 02/21/23 13:45
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-5

Matrix: Solid
Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	0.00053	U	0.0010	0.00053	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Cyclohexane	0.00023	U	0.0010	0.00023	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,2-Dibromoethane	0.00019	U	0.0010	0.00019	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,3-Dichlorobenzene	0.00038	U	0.0010	0.00038	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,2-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Dichlorodifluoromethane	0.00035	U	0.0010	0.00035	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,2,4-Trichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,4-Dioxane	0.0095	U	0.10	0.0095	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,2,3-Trichlorobenzene	0.00019	U	0.0010	0.00019	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
1,2-Dibromo-3-Chloropropane	0.00047	U	0.0010	0.00047	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Bromochloromethane	0.00029	U	0.0010	0.00029	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Methyl acetate	0.0044	U	0.0051	0.0044	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1
Methylcyclohexane	0.00051	U	0.0010	0.00051	mg/Kg	☼	02/23/23 08:37	02/27/23 18:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/23/23 08:37*	*02/27/23 18:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*72 - 145*	*02/23/23 08:37*	*02/27/23 18:30*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*	*02/23/23 08:37*	*02/27/23 18:30*	*1*
Bromofluorobenzene	*91*		*75 - 139*	*02/23/23 08:37*	*02/27/23 18:30*	*1*
Dibromofluoromethane (Surr)	*114*		*73 - 139*	*02/23/23 08:37*	*02/27/23 18:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.013	U	0.34	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2-Chlorophenol	0.012	U	0.34	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2-Methylphenol	0.013	U	0.34	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
4-Methylphenol	0.022	U	0.34	0.022	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2-Nitrophenol	0.035	U	0.34	0.035	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2,4-Dimethylphenol	0.041	U	0.34	0.041	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
4-Chloro-3-methylphenol	0.019	U	0.34	0.019	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2,4,6-Trichlorophenol	0.044	U	0.14	0.044	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2,4,5-Trichlorophenol	0.035	U	0.34	0.035	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2,4-Dinitrotoluene	0.037	U	0.070	0.037	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
4-Nitrophenol	0.056	U	0.70	0.056	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
4,6-Dinitro-2-methylphenol	0.14	U *+	0.28	0.14	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
N-Nitrosodimethylamine	0.032	U	0.34	0.032	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Bis(2-chloroethyl)ether	0.012	U	0.034	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
N-Nitrosodi-n-propylamine	0.025	U	0.034	0.025	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Hexachloroethane	0.012	U	0.034	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Nitrobenzene	0.019	U	0.034	0.019	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Naphthalene	0.0060	U	0.34	0.0060	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
4-Chloroaniline	0.061	U	0.34	0.061	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Hexachlorobutadiene	0.0073	U	0.070	0.0073	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1

Client Sample ID: SB5-301

Date Collected: 02/21/23 13:45
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-5

Matrix: Solid
Percent Solids: 95.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	0.0097	U	0.34	0.0097	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Hexachlorocyclopentadiene	0.030	U	0.34	0.030	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2-Chloronaphthalene	0.016	U	0.34	0.016	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2-Nitroaniline	0.026	U	0.34	0.026	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Dimethyl phthalate	0.078	U	0.34	0.078	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Acenaphthylene	0.0099	U	0.34	0.0099	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2,6-Dinitrotoluene	0.025	U	0.070	0.025	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
3-Nitroaniline	0.082	U	0.34	0.082	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Acenaphthene	0.0098	U	0.34	0.0098	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Dibenzofuran	0.012	U	0.34	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2,4-Dinitrophenol	0.17	U *+	0.28	0.17	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Diethyl phthalate	0.011	U	0.34	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
4-Chlorophenyl phenyl ether	0.012	U	0.34	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Fluorene	0.010	U	0.34	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
4-Nitroaniline	0.040	U	0.34	0.040	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
N-Nitrosodiphenylamine	0.028	U	0.34	0.028	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
4-Bromophenyl phenyl ether	0.014	U	0.34	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Hexachlorobenzene	0.016	U	0.034	0.016	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Phenanthrene	**0.031**	**J**	0.34	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Anthracene	0.011	U	0.34	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Carbazole	0.013	U	0.34	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Di-n-butyl phthalate	0.013	U	0.34	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Fluoranthene	**0.046**	**J**	0.34	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Pyrene	**0.048**	**J**	0.34	0.0086	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Butyl benzyl phthalate	0.016	U	0.34	0.016	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Benzo[a]anthracene	0.026	U	0.034	0.026	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Chrysene	**0.026**	**J**	0.34	0.015	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.34	0.018	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Di-n-octyl phthalate	0.018	U	0.34	0.018	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Benzo[b]fluoranthene	**0.023**	**J**	0.034	0.0089	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Benzo[k]fluoranthene	**0.014**	**J**	0.034	0.0068	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Benzo[a]pyrene	**0.020**	**J**	0.034	0.0092	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.034	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Dibenz(a,h)anthracene	0.015	U	0.034	0.015	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Benzo[g,h,i]perylene	0.010	U	0.34	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Diphenyl	0.012	U	0.34	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Acetophenone	0.017	U	0.34	0.017	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Benzaldehyde	0.057	U	0.34	0.057	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Caprolactam	0.054	U	0.34	0.054	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2,2'-oxybis[1-chloropropane]	0.021	U	0.34	0.021	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
1,2,4,5-Tetrachlorobenzene	0.011	U	0.34	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
2,3,4,6-Tetrachlorophenol	0.023	U	0.34	0.023	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
3,3'-Dichlorobenzidine	0.052	U	0.14	0.052	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1
Bis(2-chloroethoxy)methane	0.027	U	0.34	0.027	mg/Kg	☼	02/23/23 22:13	02/24/23 15:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*	☼		*N/A*	*02/23/23 22:13*	*02/24/23 15:40*	*1*

Client Sample ID: SB5-301

Date Collected: 02/21/23 13:45
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-5

Matrix: Solid
Percent Solids: 95.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		16 - 125	02/23/23 22:13	02/24/23 15:40	1
Phenol-d5	60		23 - 120	02/23/23 22:13	02/24/23 15:40	1
Terphenyl-d14	98		25 - 126	02/23/23 22:13	02/24/23 15:40	1
2,4,6-Tribromophenol	75		10 - 123	02/23/23 22:13	02/24/23 15:40	1
2-Fluorophenol	55		18 - 123	02/23/23 22:13	02/24/23 15:40	1
2-Fluorobiphenyl	87		22 - 122	02/23/23 22:13	02/24/23 15:40	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**0.0024**	**J**	0.0070	0.0012	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
4,4'-DDE	**0.0022**	**J**	0.0070	0.00083	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
4,4'-DDT	**0.0093**		0.0070	0.0013	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Aldrin	0.0011	U	0.0070	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
alpha-BHC	0.00071	U	0.0021	0.00071	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
cis-Chlordane	0.0011	U	0.0070	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
beta-BHC	0.00078	U	0.0021	0.00078	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Chlordane	0.017	U	0.070	0.017	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Dieldrin	0.00091	U	0.0021	0.00091	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Endosulfan I	0.0011	U	0.0070	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Endosulfan II	0.0018	U	0.0070	0.0018	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Endosulfan sulfate	0.00088	U	0.0070	0.00088	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Endrin	0.0010	U	0.0070	0.0010	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Endrin aldehyde	0.0017	U	0.0070	0.0017	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Endrin ketone	0.0014	U	0.0070	0.0014	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
gamma-BHC (Lindane)	0.00065	U	0.0021	0.00065	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
trans-Chlordane	0.0012	U	0.0070	0.0012	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Heptachlor	0.00083	U	0.0070	0.00083	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Heptachlor epoxide	0.0010	U	0.0070	0.0010	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Methoxychlor	0.0016	U	0.0070	0.0016	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1
Toxaphene	0.025	U	0.070	0.025	mg/Kg	☼	02/24/23 16:58	02/27/23 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		43 - 150	02/24/23 16:58	02/27/23 11:10	1
DCB Decachlorobiphenyl	103		43 - 150	02/24/23 16:58	02/27/23 11:10	1
Tetrachloro-m-xylene	99		26 - 137	02/24/23 16:58	02/27/23 11:10	1
Tetrachloro-m-xylene	95		26 - 137	02/24/23 16:58	02/27/23 11:10	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.070	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:22	1
Aroclor 1221	0.019	U	0.070	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:22	1
Aroclor 1232	0.019	U	0.070	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:22	1
Aroclor 1242	0.019	U	0.070	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:22	1
Aroclor 1248	0.019	U	0.070	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:22	1
Aroclor 1254	0.019	U	0.070	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:22	1
Aroclor 1260	0.019	U	0.070	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:22	1
Aroclor 1262	0.019	U	0.070	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:22	1
Aroclor 1268	0.019	U	0.070	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:22	1

Client Sample Results

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB5-301

Date Collected: 02/21/23 13:45
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-5

Matrix: Solid
Percent Solids: 95.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*10 - 150*	*02/24/23 16:53*	*02/27/23 21:22*	*1*
DCB Decachlorobiphenyl	*103*		*10 - 150*	*02/24/23 16:53*	*02/27/23 21:22*	*1*
Tetrachloro-m-xylene	*102*		*42 - 150*	*02/24/23 16:53*	*02/27/23 21:22*	*1*
Tetrachloro-m-xylene	*98*		*42 - 150*	*02/24/23 16:53*	*02/27/23 21:22*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.15	U	1.9	0.15	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Aluminum	**4600**		37.4	2.8	mg/Kg	☼	02/23/23 05:48	03/01/23 20:40	2
Arsenic	**2.0**	**J**	2.8	0.58	mg/Kg	☼	02/23/23 05:48	03/01/23 20:40	2
Barium	**54.4**		37.4	1.4	mg/Kg	☼	02/23/23 05:48	03/01/23 20:40	2
Beryllium	**0.12**	**J**	0.37	0.041	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Calcium	**5330**		934	39.9	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Cadmium	0.14	U	0.75	0.14	mg/Kg	☼	02/23/23 05:48	03/01/23 20:40	2
Cobalt	**4.3**	**J**	9.3	0.47	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Chromium	**11.0**		1.9	0.20	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Copper	**16.7**		4.7	0.34	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Iron	**7960**		28.0	5.6	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Potassium	**1010**		934	45.9	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Magnesium	**2340**		934	55.5	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Manganese	**273**		2.8	0.22	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Sodium	**218**	**J**	934	52.2	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Nickel	**8.9**		7.5	0.26	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Lead	**20.2**		1.9	0.49	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Antimony	0.35	U	3.7	0.35	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Selenium	1.1	U	3.7	1.1	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Thallium	0.56	U	3.7	0.56	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Vanadium	**15.9**		9.3	0.50	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2
Zinc	**28.3**		5.6	0.32	mg/Kg	☼	02/23/23 05:48	02/27/23 23:54	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	15.9	U	50.0	15.9	ug/L		02/26/23 13:17	02/27/23 17:36	5
Arsenic	24.8	U	75.0	24.8	ug/L		02/26/23 13:17	02/27/23 17:36	5
Barium	**376**	**J**	1000	140	ug/L		02/26/23 13:17	02/27/23 17:36	5
Cadmium	**1.9**	**J**	20.0	1.8	ug/L		02/26/23 13:17	02/27/23 17:36	5
Chromium	24.9	U	50.0	24.9	ug/L		02/26/23 13:17	02/27/23 17:36	5
Lead	**46.1**	**J**	50.0	12.8	ug/L		02/26/23 13:17	02/27/23 17:36	5
Selenium	35.1	U	100	35.1	ug/L		02/26/23 13:17	02/27/23 17:36	5

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		02/27/23 12:56	02/27/23 15:37	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.016	0.0074	mg/Kg	☼	02/24/23 00:48	02/24/23 05:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Burn Rate (SW846 1030)	2.20	U	2.20	2.20	mm/sec			02/28/23 13:37	1

Client Sample ID: SB5-301

Lab Sample ID: 460-275074-5
Date Collected: 02/21/23 13:45
Matrix: Solid
Date Received: 02/22/23 16:40
Percent Solids: 95.6

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive (SW846 9014)	25.0	U	25.0	25.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1
Sulfide, Reactive (SW846 9034)	20.0	U	20.0	20.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1
pH (SW846 9045D)	**11.2**	**HF**			SU			02/28/23 12:18	1
Temperature (SW846 9045D)	**22.7**	**HF**			Degrees C			02/28/23 12:18	1
Percent Moisture (EPA Moisture)	**4.4**		1.0	1.0	%			02/23/23 05:34	1
Percent Solids (EPA Moisture)	**95.6**		1.0	1.0	%			02/23/23 05:34	1

Client Sample ID: SB6-301

Lab Sample ID: 460-275074-6
Date Collected: 02/21/23 14:10
Matrix: Solid
Date Received: 02/22/23 16:40
Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.00050	U	0.0011	0.00050	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Bromomethane	0.0011	U	0.0023	0.0011	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Vinyl chloride	0.00063	U	0.0011	0.00063	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Chloroethane	0.00060	U	0.0011	0.00060	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Methylene Chloride	0.0013	U	0.0023	0.0013	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Acetone	**0.010**		0.0069	0.0066	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Carbon disulfide	0.00031	U	0.0011	0.00031	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Trichlorofluoromethane	0.00047	U	0.0011	0.00047	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,1-Dichloroethene	0.00026	U	0.0011	0.00026	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,1-Dichloroethane	0.00024	U	0.0011	0.00024	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
trans-1,2-Dichloroethene	0.00028	U	0.0011	0.00028	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
cis-1,2-Dichloroethene	0.00041	U	0.0011	0.00041	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Chloroform	0.0011	U	0.0011	0.0011	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,2-Dichloroethane	0.00034	U	0.0011	0.00034	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
2-Butanone	0.00042	U	0.0057	0.00042	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,1,1-Trichloroethane	0.00027	U	0.0011	0.00027	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Carbon tetrachloride	0.00044	U	0.0011	0.00044	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Bromodichloromethane	0.00030	U	0.0011	0.00030	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,2-Dichloropropane	0.00049	U	0.0011	0.00049	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
cis-1,3-Dichloropropene	0.00031	U	0.0011	0.00031	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Trichloroethene	0.00037	U	0.0011	0.00037	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Dibromochloromethane	0.00022	U	0.0011	0.00022	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,1,2-Trichloroethane	0.00020	U	0.0011	0.00020	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Benzene	0.00030	U	0.0011	0.00030	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
trans-1,3-Dichloropropene	0.00031	U	0.0011	0.00031	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Bromoform	0.00049	U	0.0011	0.00049	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
4-Methyl-2-pentanone	0.0018	U	0.0057	0.0018	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
2-Hexanone	0.0020	U	0.0057	0.0020	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Tetrachloroethene	0.00035	U	0.0011	0.00035	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,1,2,2-Tetrachloroethane	0.00025	U	0.0011	0.00025	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Toluene	0.00027	U	0.0011	0.00027	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Chlorobenzene	0.00020	U	0.0011	0.00020	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Ethylbenzene	0.00023	U	0.0011	0.00023	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Styrene	0.00032	U	0.0011	0.00032	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
m&p-Xylene	0.00020	U	0.0011	0.00020	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
o-Xylene	0.00022	U	0.0011	0.00022	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Freon TF	0.00035	U	0.0011	0.00035	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1

Client Sample ID: SB6-301

Date Collected: 02/21/23 14:10
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-6

Matrix: Solid
Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	0.00059	U	0.0011	0.00059	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Cyclohexane	0.00025	U	0.0011	0.00025	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,2-Dibromoethane	0.00021	U	0.0011	0.00021	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,3-Dichlorobenzene	0.00042	U	0.0011	0.00042	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,4-Dichlorobenzene	0.00026	U	0.0011	0.00026	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,2-Dichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Dichlorodifluoromethane	0.00039	U	0.0011	0.00039	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,2,4-Trichlorobenzene	0.00041	U	0.0011	0.00041	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,4-Dioxane	0.011	U	0.11	0.011	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,2,3-Trichlorobenzene	0.00021	U	0.0011	0.00021	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
1,2-Dibromo-3-Chloropropane	0.00053	U	0.0011	0.00053	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Bromochloromethane	0.00032	U	0.0011	0.00032	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Isopropylbenzene	0.00033	U	0.0011	0.00033	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Methyl acetate	0.0049	U	0.0057	0.0049	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1
Methylcyclohexane	0.00057	U	0.0011	0.00057	mg/Kg	☼	02/23/23 08:37	02/27/23 18:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*0.0094*	*J*	*mg/Kg*	☼	*13.49*	*N/A*	*02/23/23 08:37*	*02/27/23 18:52*	*1*
Unknown	*0.016*	*J*	*mg/Kg*	☼	*13.79*	*N/A*	*02/23/23 08:37*	*02/27/23 18:52*	*1*
Unknown	*0.010*	*J*	*mg/Kg*	☼	*14.03*	*N/A*	*02/23/23 08:37*	*02/27/23 18:52*	*1*
Unknown	*0.011*	*J*	*mg/Kg*	☼	*14.22*	*N/A*	*02/23/23 08:37*	*02/27/23 18:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 145*	*02/23/23 08:37*	*02/27/23 18:52*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*02/23/23 08:37*	*02/27/23 18:52*	*1*
Bromofluorobenzene	*94*		*75 - 139*	*02/23/23 08:37*	*02/27/23 18:52*	*1*
Dibromofluoromethane (Surr)	*109*		*73 - 139*	*02/23/23 08:37*	*02/27/23 18:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.013	U	0.35	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2-Chlorophenol	0.012	U	0.35	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2-Methylphenol	0.013	U	0.35	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
4-Methylphenol	0.022	U	0.35	0.022	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2-Nitrophenol	0.035	U	0.35	0.035	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2,4-Dimethylphenol	0.042	U	0.35	0.042	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2,4-Dichlorophenol	0.022	U	0.14	0.022	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
4-Chloro-3-methylphenol	0.020	U	0.35	0.020	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2,4,6-Trichlorophenol	0.045	U	0.14	0.045	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2,4,5-Trichlorophenol	0.035	U	0.35	0.035	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2,4-Dinitrotoluene	0.037	U	0.071	0.037	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
4-Nitrophenol	0.057	U	0.71	0.057	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
4,6-Dinitro-2-methylphenol	0.14	U *+	0.28	0.14	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Pentachlorophenol	0.071	U	0.28	0.071	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
N-Nitrosodimethylamine	0.032	U	0.35	0.032	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Bis(2-chloroethyl)ether	0.012	U	0.035	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
N-Nitrosodi-n-propylamine	0.025	U	0.035	0.025	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Hexachloroethane	0.012	U	0.035	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Nitrobenzene	0.019	U	0.035	0.019	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Isophorone	0.10	U	0.14	0.10	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1

Client Sample ID: SB6-301

Date Collected: 02/21/23 14:10
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-6

Matrix: Solid
Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.0060	U	0.35	0.0060	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
4-Chloroaniline	0.062	U	0.35	0.062	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Hexachlorobutadiene	0.0074	U	0.071	0.0074	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2-Methylnaphthalene	0.0097	U	0.35	0.0097	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Hexachlorocyclopentadiene	0.031	U	0.35	0.031	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2-Chloronaphthalene	0.016	U	0.35	0.016	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2-Nitroaniline	0.027	U	0.35	0.027	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Dimethyl phthalate	0.079	U	0.35	0.079	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Acenaphthylene	0.010	U	0.35	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2,6-Dinitrotoluene	0.025	U	0.071	0.025	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
3-Nitroaniline	0.083	U	0.35	0.083	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Acenaphthene	0.0099	U	0.35	0.0099	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Dibenzofuran	0.012	U	0.35	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2,4-Dinitrophenol	0.17	U *+	0.28	0.17	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Diethyl phthalate	0.011	U	0.35	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
4-Chlorophenyl phenyl ether	0.012	U	0.35	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Fluorene	0.010	U	0.35	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
4-Nitroaniline	0.040	U	0.35	0.040	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
N-Nitrosodiphenylamine	0.029	U	0.35	0.029	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
4-Bromophenyl phenyl ether	0.014	U	0.35	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Hexachlorobenzene	0.017	U	0.035	0.017	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Phenanthrene	**0.018**	**J**	0.35	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Anthracene	0.011	U	0.35	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Carbazole	0.013	U	0.35	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Di-n-butyl phthalate	0.013	U	0.35	0.013	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Fluoranthene	**0.018**	**J**	0.35	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Pyrene	**0.018**	**J**	0.35	0.0087	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Butyl benzyl phthalate	0.016	U	0.35	0.016	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Benzo[a]anthracene	0.026	U	0.035	0.026	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Chrysene	0.015	U	0.35	0.015	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Bis(2-ethylhexyl) phthalate	0.018	U	0.35	0.018	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Di-n-octyl phthalate	0.018	U	0.35	0.018	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Benzo[b]fluoranthene	0.0090	U	0.035	0.0090	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Benzo[k]fluoranthene	0.0068	U	0.035	0.0068	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Benzo[a]pyrene	0.0093	U	0.035	0.0093	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Indeno[1,2,3-cd]pyrene	0.014	U	0.035	0.014	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Dibenz(a,h)anthracene	0.015	U	0.035	0.015	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Benzo[g,h,i]perylene	0.010	U	0.35	0.010	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Diphenyl	0.012	U	0.35	0.012	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Acetophenone	0.017	U	0.35	0.017	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Benzaldehyde	0.058	U	0.35	0.058	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Caprolactam	0.054	U	0.35	0.054	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Atrazine	0.020	U	0.14	0.020	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2,2'-oxybis[1-chloropropane]	0.021	U	0.35	0.021	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
1,2,4,5-Tetrachlorobenzene	0.011	U	0.35	0.011	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
2,3,4,6-Tetrachlorophenol	0.024	U	0.35	0.024	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
3,3'-Dichlorobenzidine	0.053	U	0.14	0.053	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1
Bis(2-chloroethoxy)methane	0.027	U	0.35	0.027	mg/Kg	☼	02/23/23 22:13	02/24/23 16:51	1

Client Sample Results

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB6-301

Date Collected: 02/21/23 14:10
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-6

Matrix: Solid
Percent Solids: 94.6

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		mg/Kg	☼		N/A	02/23/23 22:13	02/24/23 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	55		16 - 125	02/23/23 22:13	02/24/23 16:51	1
Phenol-d5	57		23 - 120	02/23/23 22:13	02/24/23 16:51	1
Terphenyl-d14	80		25 - 126	02/23/23 22:13	02/24/23 16:51	1
2,4,6-Tribromophenol	96		10 - 123	02/23/23 22:13	02/24/23 16:51	1
2-Fluorophenol	50		18 - 123	02/23/23 22:13	02/24/23 16:51	1
2-Fluorobiphenyl	74		22 - 122	02/23/23 22:13	02/24/23 16:51	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0012	U	0.0071	0.0012	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
4,4'-DDE	0.00083	U	0.0071	0.00083	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
4,4'-DDT	0.0013	U	0.0071	0.0013	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Aldrin	0.0011	U	0.0071	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
alpha-BHC	0.00072	U	0.0021	0.00072	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
cis-Chlordane	0.0011	U	0.0071	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
beta-BHC	0.00079	U	0.0021	0.00079	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Chlordane	0.017	U	0.071	0.017	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
delta-BHC	0.00043	U	0.0021	0.00043	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Dieldrin	0.00092	U	0.0021	0.00092	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Endosulfan I	0.0011	U	0.0071	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Endosulfan II	0.0018	U	0.0071	0.0018	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Endosulfan sulfate	0.00089	U	0.0071	0.00089	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Endrin	0.0010	U	0.0071	0.0010	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Endrin aldehyde	0.0017	U	0.0071	0.0017	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Endrin ketone	0.0014	U	0.0071	0.0014	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
gamma-BHC (Lindane)	0.00065	U	0.0021	0.00065	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
trans-Chlordane	0.0012	U	0.0071	0.0012	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Heptachlor	0.00083	U	0.0071	0.00083	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Heptachlor epoxide	0.0011	U	0.0071	0.0011	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Methoxychlor	0.0016	U	0.0071	0.0016	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1
Toxaphene	0.026	U	0.071	0.026	mg/Kg	☼	02/24/23 16:58	02/27/23 11:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		43 - 150	02/24/23 16:58	02/27/23 11:22	1
DCB Decachlorobiphenyl	104		43 - 150	02/24/23 16:58	02/27/23 11:22	1
Tetrachloro-m-xylene	99		26 - 137	02/24/23 16:58	02/27/23 11:22	1
Tetrachloro-m-xylene	93		26 - 137	02/24/23 16:58	02/27/23 11:22	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.019	U	0.071	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:38	1
Aroclor 1221	0.019	U	0.071	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:38	1
Aroclor 1232	0.019	U	0.071	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:38	1
Aroclor 1242	0.019	U	0.071	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:38	1
Aroclor 1248	0.019	U	0.071	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:38	1
Aroclor 1254	0.019	U	0.071	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:38	1
Aroclor 1260	0.019	U	0.071	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:38	1
Aroclor 1262	0.019	U	0.071	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:38	1

Client Sample Results

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB6-301

Date Collected: 02/21/23 14:10
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-6

Matrix: Solid
Percent Solids: 94.6

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1268	0.019	U	0.071	0.019	mg/Kg	☼	02/24/23 16:53	02/27/23 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*126*		*10 - 150*	*02/24/23 16:53*	*02/27/23 21:38*	*1*
DCB Decachlorobiphenyl	*119*		*10 - 150*	*02/24/23 16:53*	*02/27/23 21:38*	*1*
Tetrachloro-m-xylene	*115*		*42 - 150*	*02/24/23 16:53*	*02/27/23 21:38*	*1*
Tetrachloro-m-xylene	*109*		*42 - 150*	*02/24/23 16:53*	*02/27/23 21:38*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.15	U	1.9	0.15	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Aluminum	**4210**		37.8	2.9	mg/Kg	☼	02/23/23 05:48	03/01/23 20:43	2
Arsenic	**1.6**	**J**	2.8	0.59	mg/Kg	☼	02/23/23 05:48	03/01/23 20:43	2
Barium	**69.3**		37.8	1.4	mg/Kg	☼	02/23/23 05:48	03/01/23 20:43	2
Beryllium	**0.18**	**J**	0.38	0.042	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Calcium	**1940**		944	40.3	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Cadmium	0.15	U	0.76	0.15	mg/Kg	☼	02/23/23 05:48	03/01/23 20:43	2
Cobalt	**6.6**	**J**	9.4	0.47	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Chromium	**19.0**		1.9	0.20	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Copper	**15.8**		4.7	0.34	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Iron	**9030**		28.3	5.7	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Potassium	**914**	**J**	944	46.4	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Magnesium	**2790**		944	56.1	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Manganese	**604**		2.8	0.23	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Sodium	**180**	**J**	944	52.8	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Nickel	**21.2**		7.6	0.26	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Lead	**10.9**		1.9	0.50	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Antimony	0.36	U	3.8	0.36	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Selenium	1.2	U	3.8	1.2	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Thallium	0.56	U	3.8	0.56	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Vanadium	**13.3**		9.4	0.51	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2
Zinc	**27.3**		5.7	0.33	mg/Kg	☼	02/23/23 05:48	02/27/23 23:58	2

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	15.9	U	50.0	15.9	ug/L		02/26/23 13:17	02/27/23 17:20	5
Arsenic	24.8	U	75.0	24.8	ug/L		02/26/23 13:17	02/27/23 17:20	5
Barium	**493**	**J**	1000	140	ug/L		02/26/23 13:17	02/27/23 17:20	5
Cadmium	1.8	U	20.0	1.8	ug/L		02/26/23 13:17	02/27/23 17:20	5
Chromium	24.9	U	50.0	24.9	ug/L		02/26/23 13:17	02/27/23 17:20	5
Lead	**100**		50.0	12.8	ug/L		02/26/23 13:17	02/27/23 17:20	5
Selenium	35.1	U	100	35.1	ug/L		02/26/23 13:17	02/27/23 17:20	5

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		02/27/23 12:56	02/27/23 15:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.011**	**J**	0.017	0.0079	mg/Kg	☼	02/27/23 00:14	02/27/23 04:45	1

Client Sample Results

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB6-301

Date Collected: 02/21/23 14:10
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-6

Matrix: Solid
Percent Solids: 94.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Burn Rate (SW846 1030)	2.20	U	2.20	2.20	mm/sec			02/28/23 13:37	1
Cyanide, Reactive (SW846 9014)	25.0	U	25.0	25.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1
Sulfide, Reactive (SW846 9034)	20.0	U	20.0	20.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1
pH (SW846 9045D)	**7.9**	**HF**			SU			02/28/23 12:20	1
Temperature (SW846 9045D)	**24.4**	**HF**			Degrees C			02/28/23 12:20	1
Percent Moisture (EPA Moisture)	**5.4**		1.0	1.0	%			02/23/23 05:34	1
Percent Solids (EPA Moisture)	**94.6**		1.0	1.0	%			02/23/23 05:34	1

Surrogate Summary

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

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	(72-145)	(80-120)	(75-139)	(73-139)
460-275074-1	SB1-436	114	132 S1+	84	109
460-275074-2	SB2-436	114	106	86	112
460-275074-3	SB3-436	115	107	86	108
460-275074-4	SB4-301	119	103	86	113
460-275074-5	SB5-301	117	105	91	114
460-275074-6	SB6-301	112	103	94	109
LB3 460-894478/1-A	Method Blank	98	114	101	100
LCS 460-895055/5	Lab Control Sample	112	102	88	106
LCS 460-895205/4	Lab Control Sample	113	107	94	107
LCS 460-895235/3	Lab Control Sample	92	113	103	96
LCSD 460-895055/6	Lab Control Sample Dup	111	107	91	107
LCSD 460-895205/5	Lab Control Sample Dup	111	103	91	106
LCSD 460-895235/20	Lab Control Sample Dup	94	109	97	94
MB 460-895055/9	Method Blank	113	101	83	104
MB 460-895205/8	Method Blank	109	103	87	108
MB 460-895235/7	Method Blank	101	111	101	100

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	PHL	TPHL	TBP	2FP	FBP
Lab Sample ID	Client Sample ID	(16-125)	(23-120)	(25-126)	(10-123)	(18-123)	(22-122)
460-275074-1	SB1-436	69	66	88	84	63	75
460-275074-2	SB2-436	78	75	91	91	74	83
460-275074-3	SB3-436	74	64	98	75	60	88
460-275074-4	SB4-301	74	72	89	86	69	80
460-275074-5	SB5-301	66	60	98	75	55	87
460-275074-6	SB6-301	55	57	80	96	50	74
460-275096-B-2-A MS	Matrix Spike	76	74	90	89	70	84
460-275096-B-2-B MSD	Matrix Spike Duplicate	80	77	94	93	74	90
LCS 460-894612/2-A	Lab Control Sample	76	73	90	90	69	84
LCSD 460-894612/3-A	Lab Control Sample Dup	78	75	88	88	73	82
MB 460-894612/1-A	Method Blank	89	84	101	101	83	92

Surrogate Legend

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

Surrogate Summary

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (43-150)	DCBP2 (43-150)	TCX1 (26-137)	TCX2 (26-137)
460-275074-1	SB1-436	102	106	100	102
460-275074-2	SB2-436	93	98	93	98
460-275074-3	SB3-436	79	78	77	81
460-275074-4	SB4-301	99	107	91	95
460-275074-5	SB5-301	103	100	95	99
460-275074-6	SB6-301	104	98	93	99
LCS 460-894803/2-A	Lab Control Sample	103	97	86	102
LCS 460-894804/2-A	Lab Control Sample	79	76	80	77
LCSD 460-894803/3-A	Lab Control Sample Dup	95	92	96	95
LCSD 460-894804/3-A	Lab Control Sample Dup	77	74	78	75
MB 460-894803/1-A	Method Blank	109	104	105	105
MB 460-894804/1-A	Method Blank	99	91	92	94

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (10-150)	DCBP2 (10-150)	TCX1 (42-150)	TCX2 (42-150)
460-275074-1	SB1-436	97	98	87	84
460-275074-2	SB2-436	104	117	107	113
460-275074-3	SB3-436	104	113	107	111
460-275074-4	SB4-301	102	115	94	97
460-275074-5	SB5-301	103	110	98	102
460-275074-6	SB6-301	119	126	109	115
460-275142-F-5-D MS	Matrix Spike	123	138	124	123
460-275142-F-5-E MSD	Matrix Spike Duplicate	108	121	105	105
LCS 460-894801/2-A	Lab Control Sample	116	107	110	97
LCS 460-894802/2-A	Lab Control Sample	110	117	110	114
LCSD 460-894801/3-A	Lab Control Sample Dup	118	107	115	100
LCSD 460-894802/3-A	Lab Control Sample Dup	112	118	111	114
MB 460-894801/1-A	Method Blank	99	91	94	84
MB 460-894802/1-A	Method Blank	102	105	98	101

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

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

Lab Sample ID: LB3 460-894478/1-A
Matrix: Solid
Analysis Batch: 895235

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894478

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
2-Butanone	0.00037	U	0.0050	0.00037	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
4-Methyl-2-pentanone	0.0016	U	0.0050	0.0016	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
m&p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Freon TF	0.00030	U	0.0010	0.00030	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
MTBE	0.00051	U	0.0010	0.00051	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,4-Dioxane	0.0092	U	0.10	0.0092	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg		02/23/23 08:33	02/28/23 11:03	1

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

Lab Sample ID: LB3 460-894478/1-A
Matrix: Solid
Analysis Batch: 895235

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894478

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	0.00028	U	0.0010	0.00028	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg		02/23/23 08:33	02/28/23 11:03	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg		02/23/23 08:33	02/28/23 11:03	1

Tentatively Identified Compound	*LB3 Est. Result*	*LB3 Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*			*N/A*	*02/23/23 08:33*	*02/28/23 11:03*	*1*

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 145*	*02/23/23 08:33*	*02/28/23 11:03*	*1*
Toluene-d8 (Surr)	*114*		*80 - 120*	*02/23/23 08:33*	*02/28/23 11:03*	*1*
Bromofluorobenzene	*101*		*75 - 139*	*02/23/23 08:33*	*02/28/23 11:03*	*1*
Dibromofluoromethane (Surr)	*100*		*73 - 139*	*02/23/23 08:33*	*02/28/23 11:03*	*1*

Lab Sample ID: MB 460-895055/9
Matrix: Solid
Analysis Batch: 895055

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			02/27/23 10:46	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			02/27/23 10:46	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			02/27/23 10:46	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			02/27/23 10:46	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			02/27/23 10:46	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			02/27/23 10:46	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			02/27/23 10:46	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			02/27/23 10:46	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			02/27/23 10:46	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			02/27/23 10:46	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			02/27/23 10:46	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			02/27/23 10:46	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			02/27/23 10:46	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			02/27/23 10:46	1
2-Butanone	0.00037	U	0.0050	0.00037	mg/Kg			02/27/23 10:46	1
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			02/27/23 10:46	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			02/27/23 10:46	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			02/27/23 10:46	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			02/27/23 10:46	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			02/27/23 10:46	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			02/27/23 10:46	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			02/27/23 10:46	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			02/27/23 10:46	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			02/27/23 10:46	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			02/27/23 10:46	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			02/27/23 10:46	1
4-Methyl-2-pentanone	0.0016	U	0.0050	0.0016	mg/Kg			02/27/23 10:46	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			02/27/23 10:46	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			02/27/23 10:46	1

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

Lab Sample ID: MB 460-895055/9
Matrix: Solid
Analysis Batch: 895055

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			02/27/23 10:46	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			02/27/23 10:46	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			02/27/23 10:46	1
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			02/27/23 10:46	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			02/27/23 10:46	1
m&p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			02/27/23 10:46	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			02/27/23 10:46	1
Freon TF	0.00030	U	0.0010	0.00030	mg/Kg			02/27/23 10:46	1
MTBE	0.00051	U	0.0010	0.00051	mg/Kg			02/27/23 10:46	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			02/27/23 10:46	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			02/27/23 10:46	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			02/27/23 10:46	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			02/27/23 10:46	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			02/27/23 10:46	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			02/27/23 10:46	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			02/27/23 10:46	1
1,4-Dioxane	0.0092	U	0.10	0.0092	mg/Kg			02/27/23 10:46	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			02/27/23 10:46	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			02/27/23 10:46	1
Bromochloromethane	0.00028	U	0.0010	0.00028	mg/Kg			02/27/23 10:46	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			02/27/23 10:46	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			02/27/23 10:46	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			02/27/23 10:46	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*			*N/A*		*02/27/23 10:46*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 145*		*02/27/23 10:46*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/27/23 10:46*	*1*
Bromofluorobenzene	*83*		*75 - 139*		*02/27/23 10:46*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 139*		*02/27/23 10:46*	*1*

Lab Sample ID: LCS 460-895055/5
Matrix: Solid
Analysis Batch: 895055

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	0.0200	0.0215		mg/Kg		108	63 - 130
Bromomethane	0.0200	0.0168		mg/Kg		84	64 - 150
Vinyl chloride	0.0200	0.0193		mg/Kg		96	72 - 131
Chloroethane	0.0200	0.0178		mg/Kg		89	68 - 132
Methylene Chloride	0.0200	0.0200		mg/Kg		100	76 - 120
Acetone	0.100	0.0783		mg/Kg		78	63 - 131
Carbon disulfide	0.0200	0.0191		mg/Kg		96	76 - 120
Trichlorofluoromethane	0.0200	0.0152		mg/Kg		76	76 - 142
1,1-Dichloroethene	0.0200	0.0170		mg/Kg		85	70 - 132
1,1-Dichloroethane	0.0200	0.0208		mg/Kg		104	77 - 129

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

Lab Sample ID: LCS 460-895055/5
Matrix: Solid
Analysis Batch: 895055

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	0.0200	0.0190		mg/Kg		95	78 - 120
cis-1,2-Dichloroethene	0.0200	0.0180		mg/Kg		90	80 - 123
Chloroform	0.0200	0.0201		mg/Kg		100	79 - 126
1,2-Dichloroethane	0.0200	0.0176		mg/Kg		88	75 - 123
2-Butanone	0.100	0.0849		mg/Kg		85	75 - 120
1,1,1-Trichloroethane	0.0200	0.0194		mg/Kg		97	78 - 120
Carbon tetrachloride	0.0200	0.0194		mg/Kg		97	77 - 121
Bromodichloromethane	0.0200	0.0203		mg/Kg		101	73 - 124
1,2-Dichloropropane	0.0200	0.0212		mg/Kg		106	73 - 124
cis-1,3-Dichloropropene	0.0200	0.0203		mg/Kg		101	80 - 120
Trichloroethene	0.0200	0.0183		mg/Kg		92	79 - 120
Dibromochloromethane	0.0200	0.0197		mg/Kg		98	80 - 120
1,1,2-Trichloroethane	0.0200	0.0182		mg/Kg		91	80 - 120
Benzene	0.0200	0.0209		mg/Kg		105	80 - 123
trans-1,3-Dichloropropene	0.0200	0.0194		mg/Kg		97	80 - 120
Bromoform	0.0200	0.0201		mg/Kg		101	70 - 125
4-Methyl-2-pentanone	0.100	0.0892		mg/Kg		89	80 - 122
2-Hexanone	0.100	0.0884		mg/Kg		88	70 - 128
Tetrachloroethene	0.0200	0.0161		mg/Kg		81	78 - 123
1,1,2,2-Tetrachloroethane	0.0200	0.0205		mg/Kg		103	66 - 123
Toluene	0.0200	0.0194		mg/Kg		97	80 - 120
Chlorobenzene	0.0200	0.0176		mg/Kg		88	80 - 120
Ethylbenzene	0.0200	0.0171		mg/Kg		85	76 - 120
Styrene	0.0200	0.0172		mg/Kg		86	80 - 120
m&p-Xylene	0.0200	0.0176		mg/Kg		88	80 - 120
o-Xylene	0.0200	0.0170		mg/Kg		85	80 - 120
Freon TF	0.0200	0.0178		mg/Kg		89	75 - 141
MTBE	0.0200	0.0192		mg/Kg		96	80 - 125
Cyclohexane	0.0200	0.0186		mg/Kg		93	70 - 132
1,2-Dibromoethane	0.0200	0.0175		mg/Kg		87	79 - 120
1,3-Dichlorobenzene	0.0200	0.0176		mg/Kg		88	80 - 120
1,4-Dichlorobenzene	0.0200	0.0177		mg/Kg		88	80 - 120
1,2-Dichlorobenzene	0.0200	0.0182		mg/Kg		91	80 - 120
Dichlorodifluoromethane	0.0200	0.0160		mg/Kg		80	62 - 150
1,2,4-Trichlorobenzene	0.0200	0.0166		mg/Kg		83	68 - 150
1,4-Dioxane	0.400	0.392		mg/Kg		98	80 - 136
1,2,3-Trichlorobenzene	0.0200	0.0169		mg/Kg		84	44 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0176		mg/Kg		88	60 - 124
Bromochloromethane	0.0200	0.0195		mg/Kg		97	76 - 127
Isopropylbenzene	0.0200	0.0176		mg/Kg		88	80 - 120
Methyl acetate	0.0400	0.0409		mg/Kg		102	58 - 143
Methylcyclohexane	0.0200	0.0194		mg/Kg		97	70 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*72 - 145*
Toluene-d8 (Surr)	*102*		*80 - 120*
Bromofluorobenzene	*88*		*75 - 139*
Dibromofluoromethane (Surr)	*106*		*73 - 139*

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

Lab Sample ID: LCSD 460-895055/6
Matrix: Solid
Analysis Batch: 895055

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
Chloromethane	0.0200	0.0241		mg/Kg		120	63 - 130	11	30
Bromomethane	0.0200	0.0169		mg/Kg		84	64 - 150	0	30
Vinyl chloride	0.0200	0.0208		mg/Kg		104	72 - 131	8	30
Chloroethane	0.0200	0.0192		mg/Kg		96	68 - 132	8	30
Methylene Chloride	0.0200	0.0189		mg/Kg		94	76 - 120	6	30
Acetone	0.100	0.0797		mg/Kg		80	63 - 131	2	30
Carbon disulfide	0.0200	0.0194		mg/Kg		97	76 - 120	1	30
Trichlorofluoromethane	0.0200	0.0155		mg/Kg		77	76 - 142	2	30
1,1-Dichloroethene	0.0200	0.0180		mg/Kg		90	70 - 132	6	30
1,1-Dichloroethane	0.0200	0.0212		mg/Kg		106	77 - 129	2	30
trans-1,2-Dichloroethene	0.0200	0.0195		mg/Kg		97	78 - 120	2	30
cis-1,2-Dichloroethene	0.0200	0.0191		mg/Kg		95	80 - 123	5	30
Chloroform	0.0200	0.0204		mg/Kg		102	79 - 126	2	30
1,2-Dichloroethane	0.0200	0.0187		mg/Kg		94	75 - 123	6	30
2-Butanone	0.100	0.0856		mg/Kg		86	75 - 120	1	30
1,1,1-Trichloroethane	0.0200	0.0184		mg/Kg		92	78 - 120	5	30
Carbon tetrachloride	0.0200	0.0201		mg/Kg		100	77 - 121	3	30
Bromodichloromethane	0.0200	0.0199		mg/Kg		99	73 - 124	2	30
1,2-Dichloropropane	0.0200	0.0206		mg/Kg		103	73 - 124	3	30
cis-1,3-Dichloropropene	0.0200	0.0197		mg/Kg		99	80 - 120	3	30
Trichloroethene	0.0200	0.0184		mg/Kg		92	79 - 120	0	30
Dibromochloromethane	0.0200	0.0202		mg/Kg		101	80 - 120	3	30
1,1,2-Trichloroethane	0.0200	0.0171		mg/Kg		85	80 - 120	7	30
Benzene	0.0200	0.0211		mg/Kg		105	80 - 123	1	30
trans-1,3-Dichloropropene	0.0200	0.0183		mg/Kg		92	80 - 120	5	30
Bromoform	0.0200	0.0201		mg/Kg		101	70 - 125	0	30
4-Methyl-2-pentanone	0.100	0.0851		mg/Kg		85	80 - 122	5	30
2-Hexanone	0.100	0.0834		mg/Kg		83	70 - 128	6	30
Tetrachloroethene	0.0200	0.0162		mg/Kg		81	78 - 123	1	30
1,1,2,2-Tetrachloroethane	0.0200	0.0207		mg/Kg		103	66 - 123	1	30
Toluene	0.0200	0.0195		mg/Kg		97	80 - 120	0	30
Chlorobenzene	0.0200	0.0180		mg/Kg		90	80 - 120	2	30
Ethylbenzene	0.0200	0.0187		mg/Kg		94	76 - 120	9	30
Styrene	0.0200	0.0177		mg/Kg		88	80 - 120	3	30
m&p-Xylene	0.0200	0.0188		mg/Kg		94	80 - 120	7	30
o-Xylene	0.0200	0.0178		mg/Kg		89	80 - 120	5	30
Freon TF	0.0200	0.0189		mg/Kg		95	75 - 141	6	30
MTBE	0.0200	0.0194		mg/Kg		97	80 - 125	1	30
Cyclohexane	0.0200	0.0208		mg/Kg		104	70 - 132	11	30
1,2-Dibromoethane	0.0200	0.0177		mg/Kg		89	79 - 120	2	30
1,3-Dichlorobenzene	0.0200	0.0175		mg/Kg		87	80 - 120	1	30
1,4-Dichlorobenzene	0.0200	0.0180		mg/Kg		90	80 - 120	2	30
1,2-Dichlorobenzene	0.0200	0.0175		mg/Kg		87	80 - 120	4	30
Dichlorodifluoromethane	0.0200	0.0186		mg/Kg		93	62 - 150	15	30
1,2,4-Trichlorobenzene	0.0200	0.0163		mg/Kg		82	68 - 150	2	30
1,4-Dioxane	0.400	0.386		mg/Kg		96	80 - 136	2	30
1,2,3-Trichlorobenzene	0.0200	0.0172		mg/Kg		86	44 - 120	2	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0166		mg/Kg		83	60 - 124	6	30

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

Lab Sample ID: LCSD 460-895055/6
Matrix: Solid
Analysis Batch: 895055

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
Bromochloromethane			0.0200	0.0188		mg/Kg		94	76 - 127	4	30
Isopropylbenzene			0.0200	0.0183		mg/Kg		92	80 - 120	4	30
Methyl acetate			0.0400	0.0374		mg/Kg		93	58 - 143	9	30
Methylcyclohexane			0.0200	0.0206		mg/Kg		103	70 - 133	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 145*
Toluene-d8 (Surr)	*107*		*80 - 120*
Bromofluorobenzene	*91*		*75 - 139*
Dibromofluoromethane (Surr)	*107*		*73 - 139*

Lab Sample ID: MB 460-895205/8
Matrix: Solid
Analysis Batch: 895205

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			02/28/23 06:54	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			02/28/23 06:54	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			02/28/23 06:54	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			02/28/23 06:54	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			02/28/23 06:54	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			02/28/23 06:54	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			02/28/23 06:54	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			02/28/23 06:54	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			02/28/23 06:54	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			02/28/23 06:54	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			02/28/23 06:54	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			02/28/23 06:54	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			02/28/23 06:54	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			02/28/23 06:54	1
2-Butanone	0.00037	U	0.0050	0.00037	mg/Kg			02/28/23 06:54	1
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			02/28/23 06:54	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			02/28/23 06:54	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			02/28/23 06:54	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			02/28/23 06:54	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			02/28/23 06:54	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			02/28/23 06:54	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			02/28/23 06:54	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			02/28/23 06:54	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			02/28/23 06:54	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			02/28/23 06:54	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			02/28/23 06:54	1
4-Methyl-2-pentanone	0.0016	U	0.0050	0.0016	mg/Kg			02/28/23 06:54	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			02/28/23 06:54	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			02/28/23 06:54	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			02/28/23 06:54	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			02/28/23 06:54	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			02/28/23 06:54	1

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

Lab Sample ID: MB 460-895205/8
Matrix: Solid
Analysis Batch: 895205

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			02/28/23 06:54	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			02/28/23 06:54	1
m&p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			02/28/23 06:54	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			02/28/23 06:54	1
Freon TF	0.00030	U	0.0010	0.00030	mg/Kg			02/28/23 06:54	1
MTBE	0.00051	U	0.0010	0.00051	mg/Kg			02/28/23 06:54	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			02/28/23 06:54	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			02/28/23 06:54	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			02/28/23 06:54	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			02/28/23 06:54	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			02/28/23 06:54	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			02/28/23 06:54	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			02/28/23 06:54	1
1,4-Dioxane	0.0092	U	0.10	0.0092	mg/Kg			02/28/23 06:54	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			02/28/23 06:54	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			02/28/23 06:54	1
Bromochloromethane	0.00028	U	0.0010	0.00028	mg/Kg			02/28/23 06:54	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			02/28/23 06:54	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			02/28/23 06:54	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			02/28/23 06:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*72 - 145*		*02/28/23 06:54*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*02/28/23 06:54*	*1*
Bromofluorobenzene	*87*		*75 - 139*		*02/28/23 06:54*	*1*
Dibromofluoromethane (Surr)	*108*		*73 - 139*		*02/28/23 06:54*	*1*

Lab Sample ID: LCS 460-895205/4
Matrix: Solid
Analysis Batch: 895205

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	0.0200	0.0230		mg/Kg		115	63 - 130
Bromomethane	0.0200	0.0176		mg/Kg		88	64 - 150
Vinyl chloride	0.0200	0.0212		mg/Kg		106	72 - 131
Chloroethane	0.0200	0.0200		mg/Kg		100	68 - 132
Methylene Chloride	0.0200	0.0188		mg/Kg		94	76 - 120
Acetone	0.100	0.0764		mg/Kg		76	63 - 131
Carbon disulfide	0.0200	0.0186		mg/Kg		93	76 - 120
Trichlorofluoromethane	0.0200	0.0182		mg/Kg		91	76 - 142
1,1-Dichloroethene	0.0200	0.0185		mg/Kg		92	70 - 132
1,1-Dichloroethane	0.0200	0.0201		mg/Kg		100	77 - 129
trans-1,2-Dichloroethene	0.0200	0.0187		mg/Kg		94	78 - 120
cis-1,2-Dichloroethene	0.0200	0.0176		mg/Kg		88	80 - 123
Chloroform	0.0200	0.0197		mg/Kg		98	79 - 126
1,2-Dichloroethane	0.0200	0.0171		mg/Kg		85	75 - 123
2-Butanone	0.100	0.0833		mg/Kg		83	75 - 120
1,1,1-Trichloroethane	0.0200	0.0181		mg/Kg		90	78 - 120

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

Lab Sample ID: LCS 460-895205/4
Matrix: Solid
Analysis Batch: 895205

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	0.0200	0.0192		mg/Kg		96	77 - 121
Bromodichloromethane	0.0200	0.0183		mg/Kg		91	73 - 124
1,2-Dichloropropane	0.0200	0.0198		mg/Kg		99	73 - 124
cis-1,3-Dichloropropene	0.0200	0.0195		mg/Kg		97	80 - 120
Trichloroethene	0.0200	0.0181		mg/Kg		90	79 - 120
Dibromochloromethane	0.0200	0.0194		mg/Kg		97	80 - 120
1,1,2-Trichloroethane	0.0200	0.0172		mg/Kg		86	80 - 120
Benzene	0.0200	0.0202		mg/Kg		101	80 - 123
trans-1,3-Dichloropropene	0.0200	0.0189		mg/Kg		95	80 - 120
Bromoform	0.0200	0.0211		mg/Kg		105	70 - 125
4-Methyl-2-pentanone	0.100	0.0796		mg/Kg		80	80 - 122
2-Hexanone	0.100	0.0816		mg/Kg		82	70 - 128
Tetrachloroethene	0.0200	0.0165		mg/Kg		82	78 - 123
1,1,2,2-Tetrachloroethane	0.0200	0.0189		mg/Kg		95	66 - 123
Toluene	0.0200	0.0185		mg/Kg		92	80 - 120
Chlorobenzene	0.0200	0.0166		mg/Kg		83	80 - 120
Ethylbenzene	0.0200	0.0180		mg/Kg		90	76 - 120
Styrene	0.0200	0.0167		mg/Kg		84	80 - 120
m&p-Xylene	0.0200	0.0178		mg/Kg		89	80 - 120
o-Xylene	0.0200	0.0170		mg/Kg		85	80 - 120
Freon TF	0.0200	0.0175		mg/Kg		88	75 - 141
MTBE	0.0200	0.0184		mg/Kg		92	80 - 125
Cyclohexane	0.0200	0.0201		mg/Kg		101	70 - 132
1,2-Dibromoethane	0.0200	0.0166		mg/Kg		83	79 - 120
1,3-Dichlorobenzene	0.0200	0.0177		mg/Kg		88	80 - 120
1,4-Dichlorobenzene	0.0200	0.0175		mg/Kg		87	80 - 120
1,2-Dichlorobenzene	0.0200	0.0168		mg/Kg		84	80 - 120
Dichlorodifluoromethane	0.0200	0.0198		mg/Kg		99	62 - 150
1,2,4-Trichlorobenzene	0.0200	0.0161		mg/Kg		80	68 - 150
1,4-Dioxane	0.400	0.349		mg/Kg		87	80 - 136
1,2,3-Trichlorobenzene	0.0200	0.0171		mg/Kg		85	44 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0174		mg/Kg		87	60 - 124
Bromochloromethane	0.0200	0.0188		mg/Kg		94	76 - 127
Isopropylbenzene	0.0200	0.0183		mg/Kg		92	80 - 120
Methyl acetate	0.0400	0.0351		mg/Kg		88	58 - 143
Methylcyclohexane	0.0200	0.0196		mg/Kg		98	70 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*72 - 145*
Toluene-d8 (Surr)	*107*		*80 - 120*
Bromofluorobenzene	*94*		*75 - 139*
Dibromofluoromethane (Surr)	*107*		*73 - 139*

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

Lab Sample ID: LCSD 460-895205/5
Matrix: Solid
Analysis Batch: 895205

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
Chloromethane	0.0200	0.0236		mg/Kg		118	63 - 130	2	30
Bromomethane	0.0200	0.0177		mg/Kg		88	64 - 150	1	30
Vinyl chloride	0.0200	0.0212		mg/Kg		106	72 - 131	0	30
Chloroethane	0.0200	0.0196		mg/Kg		98	68 - 132	2	30
Methylene Chloride	0.0200	0.0189		mg/Kg		95	76 - 120	1	30
Acetone	0.100	0.0735		mg/Kg		74	63 - 131	4	30
Carbon disulfide	0.0200	0.0192		mg/Kg		96	76 - 120	3	30
Trichlorofluoromethane	0.0200	0.0186		mg/Kg		93	76 - 142	2	30
1,1-Dichloroethene	0.0200	0.0182		mg/Kg		91	70 - 132	1	30
1,1-Dichloroethane	0.0200	0.0195		mg/Kg		97	77 - 129	3	30
trans-1,2-Dichloroethene	0.0200	0.0173		mg/Kg		87	78 - 120	8	30
cis-1,2-Dichloroethene	0.0200	0.0174		mg/Kg		87	80 - 123	2	30
Chloroform	0.0200	0.0188		mg/Kg		94	79 - 126	5	30
1,2-Dichloroethane	0.0200	0.0179		mg/Kg		89	75 - 123	5	30
2-Butanone	0.100	0.0836		mg/Kg		84	75 - 120	0	30
1,1,1-Trichloroethane	0.0200	0.0180		mg/Kg		90	78 - 120	0	30
Carbon tetrachloride	0.0200	0.0199		mg/Kg		100	77 - 121	4	30
Bromodichloromethane	0.0200	0.0192		mg/Kg		96	73 - 124	5	30
1,2-Dichloropropane	0.0200	0.0193		mg/Kg		96	73 - 124	3	30
cis-1,3-Dichloropropene	0.0200	0.0194		mg/Kg		97	80 - 120	0	30
Trichloroethene	0.0200	0.0185		mg/Kg		92	79 - 120	2	30
Dibromochloromethane	0.0200	0.0199		mg/Kg		99	80 - 120	3	30
1,1,2-Trichloroethane	0.0200	0.0167		mg/Kg		83	80 - 120	3	30
Benzene	0.0200	0.0193		mg/Kg		96	80 - 123	5	30
trans-1,3-Dichloropropene	0.0200	0.0187		mg/Kg		94	80 - 120	1	30
Bromoform	0.0200	0.0207		mg/Kg		103	70 - 125	2	30
4-Methyl-2-pentanone	0.100	0.0801		mg/Kg		80	80 - 122	1	30
2-Hexanone	0.100	0.0851		mg/Kg		85	70 - 128	4	30
Tetrachloroethene	0.0200	0.0165		mg/Kg		83	78 - 123	0	30
1,1,2,2-Tetrachloroethane	0.0200	0.0201		mg/Kg		101	66 - 123	6	30
Toluene	0.0200	0.0177		mg/Kg		89	80 - 120	4	30
Chlorobenzene	0.0200	0.0165		mg/Kg		82	80 - 120	1	30
Ethylbenzene	0.0200	0.0172		mg/Kg		86	76 - 120	5	30
Styrene	0.0200	0.0162		mg/Kg		81	80 - 120	3	30
m&p-Xylene	0.0200	0.0177		mg/Kg		89	80 - 120	0	30
o-Xylene	0.0200	0.0166		mg/Kg		83	80 - 120	2	30
Freon TF	0.0200	0.0173		mg/Kg		87	75 - 141	1	30
MTBE	0.0200	0.0191		mg/Kg		96	80 - 125	4	30
Cyclohexane	0.0200	0.0195		mg/Kg		98	70 - 132	3	30
1,2-Dibromoethane	0.0200	0.0162		mg/Kg		81	79 - 120	2	30
1,3-Dichlorobenzene	0.0200	0.0173		mg/Kg		86	80 - 120	2	30
1,4-Dichlorobenzene	0.0200	0.0170		mg/Kg		85	80 - 120	3	30
1,2-Dichlorobenzene	0.0200	0.0170		mg/Kg		85	80 - 120	1	30
Dichlorodifluoromethane	0.0200	0.0197		mg/Kg		99	62 - 150	1	30
1,2,4-Trichlorobenzene	0.0200	0.0155		mg/Kg		78	68 - 150	4	30
1,4-Dioxane	0.400	0.399		mg/Kg		100	80 - 136	13	30
1,2,3-Trichlorobenzene	0.0200	0.0165		mg/Kg		82	44 - 120	4	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0175		mg/Kg		88	60 - 124	1	30

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

Lab Sample ID: LCSD 460-895205/5
Matrix: Solid
Analysis Batch: 895205

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
Bromochloromethane			0.0200	0.0192		mg/Kg		96	76 - 127	2	30
Isopropylbenzene			0.0200	0.0178		mg/Kg		89	80 - 120	3	30
Methyl acetate			0.0400	0.0357		mg/Kg		89	58 - 143	2	30
Methylcyclohexane			0.0200	0.0204		mg/Kg		102	70 - 133	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*72 - 145*
Toluene-d8 (Surr)	*103*		*80 - 120*
Bromofluorobenzene	*91*		*75 - 139*
Dibromofluoromethane (Surr)	*106*		*73 - 139*

Lab Sample ID: MB 460-895235/7
Matrix: Solid
Analysis Batch: 895235

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.00044	U	0.0010	0.00044	mg/Kg			02/28/23 10:17	1
Bromomethane	0.0010	U	0.0020	0.0010	mg/Kg			02/28/23 10:17	1
Vinyl chloride	0.00055	U	0.0010	0.00055	mg/Kg			02/28/23 10:17	1
Chloroethane	0.00052	U	0.0010	0.00052	mg/Kg			02/28/23 10:17	1
Methylene Chloride	0.0011	U	0.0020	0.0011	mg/Kg			02/28/23 10:17	1
Acetone	0.0057	U	0.0060	0.0057	mg/Kg			02/28/23 10:17	1
Carbon disulfide	0.00027	U	0.0010	0.00027	mg/Kg			02/28/23 10:17	1
Trichlorofluoromethane	0.00041	U	0.0010	0.00041	mg/Kg			02/28/23 10:17	1
1,1-Dichloroethene	0.00023	U	0.0010	0.00023	mg/Kg			02/28/23 10:17	1
1,1-Dichloroethane	0.00021	U	0.0010	0.00021	mg/Kg			02/28/23 10:17	1
trans-1,2-Dichloroethene	0.00025	U	0.0010	0.00025	mg/Kg			02/28/23 10:17	1
cis-1,2-Dichloroethene	0.00036	U	0.0010	0.00036	mg/Kg			02/28/23 10:17	1
Chloroform	0.00097	U	0.0010	0.00097	mg/Kg			02/28/23 10:17	1
1,2-Dichloroethane	0.00030	U	0.0010	0.00030	mg/Kg			02/28/23 10:17	1
2-Butanone	0.00037	U	0.0050	0.00037	mg/Kg			02/28/23 10:17	1
1,1,1-Trichloroethane	0.00023	U	0.0010	0.00023	mg/Kg			02/28/23 10:17	1
Carbon tetrachloride	0.00039	U	0.0010	0.00039	mg/Kg			02/28/23 10:17	1
Bromodichloromethane	0.00026	U	0.0010	0.00026	mg/Kg			02/28/23 10:17	1
1,2-Dichloropropane	0.00042	U	0.0010	0.00042	mg/Kg			02/28/23 10:17	1
cis-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			02/28/23 10:17	1
Trichloroethene	0.00032	U	0.0010	0.00032	mg/Kg			02/28/23 10:17	1
Dibromochloromethane	0.00019	U	0.0010	0.00019	mg/Kg			02/28/23 10:17	1
1,1,2-Trichloroethane	0.00018	U	0.0010	0.00018	mg/Kg			02/28/23 10:17	1
Benzene	0.00026	U	0.0010	0.00026	mg/Kg			02/28/23 10:17	1
trans-1,3-Dichloropropene	0.00027	U	0.0010	0.00027	mg/Kg			02/28/23 10:17	1
Bromoform	0.00043	U	0.0010	0.00043	mg/Kg			02/28/23 10:17	1
4-Methyl-2-pentanone	0.0016	U	0.0050	0.0016	mg/Kg			02/28/23 10:17	1
2-Hexanone	0.0017	U	0.0050	0.0017	mg/Kg			02/28/23 10:17	1
Tetrachloroethene	0.00031	U	0.0010	0.00031	mg/Kg			02/28/23 10:17	1
1,1,2,2-Tetrachloroethane	0.00021	U	0.0010	0.00021	mg/Kg			02/28/23 10:17	1
Toluene	0.00023	U	0.0010	0.00023	mg/Kg			02/28/23 10:17	1
Chlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			02/28/23 10:17	1

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

Lab Sample ID: MB 460-895235/7
Matrix: Solid
Analysis Batch: 895235

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00020	U	0.0010	0.00020	mg/Kg			02/28/23 10:17	1
Styrene	0.00028	U	0.0010	0.00028	mg/Kg			02/28/23 10:17	1
m&p-Xylene	0.00017	U	0.0010	0.00017	mg/Kg			02/28/23 10:17	1
o-Xylene	0.00019	U	0.0010	0.00019	mg/Kg			02/28/23 10:17	1
Freon TF	0.00030	U	0.0010	0.00030	mg/Kg			02/28/23 10:17	1
MTBE	0.00051	U	0.0010	0.00051	mg/Kg			02/28/23 10:17	1
Cyclohexane	0.00022	U	0.0010	0.00022	mg/Kg			02/28/23 10:17	1
1,2-Dibromoethane	0.00018	U	0.0010	0.00018	mg/Kg			02/28/23 10:17	1
1,3-Dichlorobenzene	0.00037	U	0.0010	0.00037	mg/Kg			02/28/23 10:17	1
1,4-Dichlorobenzene	0.00023	U	0.0010	0.00023	mg/Kg			02/28/23 10:17	1
1,2-Dichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			02/28/23 10:17	1
Dichlorodifluoromethane	0.00034	U	0.0010	0.00034	mg/Kg			02/28/23 10:17	1
1,2,4-Trichlorobenzene	0.00036	U	0.0010	0.00036	mg/Kg			02/28/23 10:17	1
1,4-Dioxane	0.0092	U	0.10	0.0092	mg/Kg			02/28/23 10:17	1
1,2,3-Trichlorobenzene	0.00018	U	0.0010	0.00018	mg/Kg			02/28/23 10:17	1
1,2-Dibromo-3-Chloropropane	0.00046	U	0.0010	0.00046	mg/Kg			02/28/23 10:17	1
Bromochloromethane	0.00028	U	0.0010	0.00028	mg/Kg			02/28/23 10:17	1
Isopropylbenzene	0.00029	U	0.0010	0.00029	mg/Kg			02/28/23 10:17	1
Methyl acetate	0.0043	U	0.0050	0.0043	mg/Kg			02/28/23 10:17	1
Methylcyclohexane	0.00050	U	0.0010	0.00050	mg/Kg			02/28/23 10:17	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*			*N/A*		*02/28/23 10:17*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 145*		*02/28/23 10:17*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*02/28/23 10:17*	*1*
Bromofluorobenzene	*101*		*75 - 139*		*02/28/23 10:17*	*1*
Dibromofluoromethane (Surr)	*100*		*73 - 139*		*02/28/23 10:17*	*1*

Lab Sample ID: LCS 460-895235/3
Matrix: Solid
Analysis Batch: 895235

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	0.0200	0.0255		mg/Kg		128	63 - 130
Bromomethane	0.0200	0.0194		mg/Kg		97	64 - 150
Vinyl chloride	0.0200	0.0225		mg/Kg		113	72 - 131
Chloroethane	0.0200	0.0211		mg/Kg		105	68 - 132
Methylene Chloride	0.0200	0.0215		mg/Kg		108	76 - 120
Acetone	0.100	0.0936		mg/Kg		94	63 - 131
Carbon disulfide	0.0200	0.0244	*+	mg/Kg		122	76 - 120
Trichlorofluoromethane	0.0200	0.0189		mg/Kg		95	76 - 142
1,1-Dichloroethene	0.0200	0.0227		mg/Kg		114	70 - 132
1,1-Dichloroethane	0.0200	0.0221		mg/Kg		110	77 - 129
trans-1,2-Dichloroethene	0.0200	0.0216		mg/Kg		108	78 - 120
cis-1,2-Dichloroethene	0.0200	0.0213		mg/Kg		106	80 - 123
Chloroform	0.0200	0.0194		mg/Kg		97	79 - 126

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

Lab Sample ID: LCS 460-895235/3
Matrix: Solid
Analysis Batch: 895235

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	0.0200	0.0182		mg/Kg		91	75 - 123
2-Butanone	0.100	0.103		mg/Kg		103	75 - 120
1,1,1-Trichloroethane	0.0200	0.0187		mg/Kg		94	78 - 120
Carbon tetrachloride	0.0200	0.0166		mg/Kg		83	77 - 121
Bromodichloromethane	0.0200	0.0187		mg/Kg		94	73 - 124
1,2-Dichloropropane	0.0200	0.0229		mg/Kg		114	73 - 124
cis-1,3-Dichloropropene	0.0200	0.0225		mg/Kg		113	80 - 120
Trichloroethene	0.0200	0.0198		mg/Kg		99	79 - 120
Dibromochloromethane	0.0200	0.0189		mg/Kg		95	80 - 120
1,1,2-Trichloroethane	0.0200	0.0231		mg/Kg		116	80 - 120
Benzene	0.0200	0.0245		mg/Kg		123	80 - 123
trans-1,3-Dichloropropene	0.0200	0.0212		mg/Kg		106	80 - 120
Bromoform	0.0200	0.0170		mg/Kg		85	70 - 125
4-Methyl-2-pentanone	0.100	0.100		mg/Kg		100	80 - 122
2-Hexanone	0.100	0.0985		mg/Kg		99	70 - 128
Tetrachloroethene	0.0200	0.0190		mg/Kg		95	78 - 123
1,1,2,2-Tetrachloroethane	0.0200	0.0249	*+	mg/Kg		124	66 - 123
Toluene	0.0200	0.0224		mg/Kg		112	80 - 120
Chlorobenzene	0.0200	0.0204		mg/Kg		102	80 - 120
Ethylbenzene	0.0200	0.0208		mg/Kg		104	76 - 120
Styrene	0.0200	0.0212		mg/Kg		106	80 - 120
m&p-Xylene	0.0200	0.0209		mg/Kg		104	80 - 120
o-Xylene	0.0200	0.0212		mg/Kg		106	80 - 120
Freon TF	0.0200	0.0211		mg/Kg		106	75 - 141
MTBE	0.0200	0.0214		mg/Kg		107	80 - 125
Cyclohexane	0.0200	0.0231		mg/Kg		116	70 - 132
1,2-Dibromoethane	0.0200	0.0208		mg/Kg		104	79 - 120
1,3-Dichlorobenzene	0.0200	0.0214		mg/Kg		107	80 - 120
1,4-Dichlorobenzene	0.0200	0.0211		mg/Kg		106	80 - 120
1,2-Dichlorobenzene	0.0200	0.0211		mg/Kg		105	80 - 120
Dichlorodifluoromethane	0.0200	0.0226		mg/Kg		113	62 - 150
1,2,4-Trichlorobenzene	0.0200	0.0190		mg/Kg		95	68 - 150
1,4-Dioxane	0.400	0.430		mg/Kg		108	80 - 136
1,2,3-Trichlorobenzene	0.0200	0.0190		mg/Kg		95	44 - 120
1,2-Dibromo-3-Chloropropane	0.0200	0.0193		mg/Kg		97	60 - 124
Bromochloromethane	0.0200	0.0191		mg/Kg		95	76 - 127
Isopropylbenzene	0.0200	0.0206		mg/Kg		103	80 - 120
Methyl acetate	0.0400	0.0450		mg/Kg		113	58 - 143
Methylcyclohexane	0.0200	0.0230		mg/Kg		115	70 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 145*
Toluene-d8 (Surr)	*113*		*80 - 120*
Bromofluorobenzene	*103*		*75 - 139*
Dibromofluoromethane (Surr)	*96*		*73 - 139*

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

Lab Sample ID: LCSD 460-895235/20
Matrix: Solid
Analysis Batch: 895235

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
Chloromethane	0.0200	0.0271	*+	mg/Kg		135	63 - 130	6	30
Bromomethane	0.0200	0.0207		mg/Kg		104	64 - 150	7	30
Vinyl chloride	0.0200	0.0230		mg/Kg		115	72 - 131	2	30
Chloroethane	0.0200	0.0204		mg/Kg		102	68 - 132	3	30
Methylene Chloride	0.0200	0.0221		mg/Kg		110	76 - 120	2	30
Acetone	0.100	0.0899		mg/Kg		90	63 - 131	4	30
Carbon disulfide	0.0200	0.0233		mg/Kg		116	76 - 120	5	30
Trichlorofluoromethane	0.0200	0.0180		mg/Kg		90	76 - 142	5	30
1,1-Dichloroethene	0.0200	0.0219		mg/Kg		109	70 - 132	4	30
1,1-Dichloroethane	0.0200	0.0220		mg/Kg		110	77 - 129	1	30
trans-1,2-Dichloroethene	0.0200	0.0217		mg/Kg		108	78 - 120	0	30
cis-1,2-Dichloroethene	0.0200	0.0207		mg/Kg		104	80 - 123	3	30
Chloroform	0.0200	0.0194		mg/Kg		97	79 - 126	0	30
1,2-Dichloroethane	0.0200	0.0185		mg/Kg		92	75 - 123	2	30
2-Butanone	0.100	0.0951		mg/Kg		95	75 - 120	8	30
1,1,1-Trichloroethane	0.0200	0.0177		mg/Kg		89	78 - 120	5	30
Carbon tetrachloride	0.0200	0.0155		mg/Kg		78	77 - 121	7	30
Bromodichloromethane	0.0200	0.0187		mg/Kg		94	73 - 124	0	30
1,2-Dichloropropane	0.0200	0.0228		mg/Kg		114	73 - 124	0	30
cis-1,3-Dichloropropene	0.0200	0.0222		mg/Kg		111	80 - 120	2	30
Trichloroethene	0.0200	0.0194		mg/Kg		97	79 - 120	2	30
Dibromochloromethane	0.0200	0.0184		mg/Kg		92	80 - 120	3	30
1,1,2-Trichloroethane	0.0200	0.0234		mg/Kg		117	80 - 120	1	30
Benzene	0.0200	0.0238		mg/Kg		119	80 - 123	3	30
trans-1,3-Dichloropropene	0.0200	0.0207		mg/Kg		104	80 - 120	3	30
Bromoform	0.0200	0.0171		mg/Kg		86	70 - 125	1	30
4-Methyl-2-pentanone	0.100	0.0932		mg/Kg		93	80 - 122	7	30
2-Hexanone	0.100	0.0898		mg/Kg		90	70 - 128	9	30
Tetrachloroethene	0.0200	0.0178		mg/Kg		89	78 - 123	7	30
1,1,2,2-Tetrachloroethane	0.0200	0.0241		mg/Kg		120	66 - 123	3	30
Toluene	0.0200	0.0214		mg/Kg		107	80 - 120	5	30
Chlorobenzene	0.0200	0.0195		mg/Kg		97	80 - 120	4	30
Ethylbenzene	0.0200	0.0200		mg/Kg		100	76 - 120	4	30
Styrene	0.0200	0.0202		mg/Kg		101	80 - 120	5	30
m&p-Xylene	0.0200	0.0196		mg/Kg		98	80 - 120	6	30
o-Xylene	0.0200	0.0201		mg/Kg		100	80 - 120	5	30
Freon TF	0.0200	0.0201		mg/Kg		101	75 - 141	5	30
MTBE	0.0200	0.0221		mg/Kg		110	80 - 125	3	30
Cyclohexane	0.0200	0.0219		mg/Kg		110	70 - 132	5	30
1,2-Dibromoethane	0.0200	0.0204		mg/Kg		102	79 - 120	2	30
1,3-Dichlorobenzene	0.0200	0.0194		mg/Kg		97	80 - 120	10	30
1,4-Dichlorobenzene	0.0200	0.0196		mg/Kg		98	80 - 120	8	30
1,2-Dichlorobenzene	0.0200	0.0194		mg/Kg		97	80 - 120	8	30
Dichlorodifluoromethane	0.0200	0.0222		mg/Kg		111	62 - 150	2	30
1,2,4-Trichlorobenzene	0.0200	0.0168		mg/Kg		84	68 - 150	12	30
1,4-Dioxane	0.400	0.396		mg/Kg		99	80 - 136	8	30
1,2,3-Trichlorobenzene	0.0200	0.0174		mg/Kg		87	44 - 120	9	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0188		mg/Kg		94	60 - 124	3	30

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

Lab Sample ID: LCSD 460-895235/20
Matrix: Solid
Analysis Batch: 895235

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
Bromochloromethane			0.0200	0.0188		mg/Kg		94	76 - 127	1	30
Isopropylbenzene			0.0200	0.0191		mg/Kg		96	80 - 120	8	30
Methyl acetate			0.0400	0.0491		mg/Kg		123	58 - 143	9	30
Methylcyclohexane			0.0200	0.0213		mg/Kg		106	70 - 133	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 145*
Toluene-d8 (Surr)	*109*		*80 - 120*
Bromofluorobenzene	*97*		*75 - 139*
Dibromofluoromethane (Surr)	*94*		*73 - 139*

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

Lab Sample ID: MB 460-894612/1-A
Matrix: Solid
Analysis Batch: 894672

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.012	U	0.33	0.012	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2-Chlorophenol	0.012	U	0.33	0.012	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2-Methylphenol	0.012	U	0.33	0.012	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
4-Methylphenol	0.021	U	0.33	0.021	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2-Nitrophenol	0.033	U	0.33	0.033	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2,4-Dimethylphenol	0.039	U	0.33	0.039	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2,4-Dichlorophenol	0.021	U	0.13	0.021	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
4-Chloro-3-methylphenol	0.019	U	0.33	0.019	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2,4,6-Trichlorophenol	0.042	U	0.13	0.042	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2,4,5-Trichlorophenol	0.034	U	0.33	0.034	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2,4-Dinitrotoluene	0.036	U	0.067	0.036	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
4-Nitrophenol	0.054	U	0.67	0.054	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
4,6-Dinitro-2-methylphenol	0.14	U	0.27	0.14	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Pentachlorophenol	0.068	U	0.27	0.068	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
N-Nitrosodimethylamine	0.031	U	0.33	0.031	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Bis(2-chloroethyl)ether	0.012	U	0.033	0.012	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
N-Nitrosodi-n-propylamine	0.024	U	0.033	0.024	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Hexachloroethane	0.011	U	0.033	0.011	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Nitrobenzene	0.018	U	0.033	0.018	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Isophorone	0.096	U	0.13	0.096	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Naphthalene	0.0057	U	0.33	0.0057	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
4-Chloroaniline	0.059	U	0.33	0.059	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Hexachlorobutadiene	0.0070	U	0.067	0.0070	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2-Methylnaphthalene	0.0093	U	0.33	0.0093	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Hexachlorocyclopentadiene	0.029	U	0.33	0.029	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2-Chloronaphthalene	0.015	U	0.33	0.015	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2-Nitroaniline	0.025	U	0.33	0.025	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Dimethyl phthalate	0.075	U	0.33	0.075	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Acenaphthylene	0.0095	U	0.33	0.0095	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2,6-Dinitrotoluene	0.024	U	0.067	0.024	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
3-Nitroaniline	0.079	U	0.33	0.079	mg/Kg		02/23/23 22:13	02/24/23 09:28	1

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

Lab Sample ID: MB 460-894612/1-A
Matrix: Solid
Analysis Batch: 894672

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0094	U	0.33	0.0094	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Dibenzofuran	0.011	U	0.33	0.011	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2,4-Dinitrophenol	0.16	U	0.27	0.16	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Diethyl phthalate	0.011	U	0.33	0.011	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
4-Chlorophenyl phenyl ether	0.012	U	0.33	0.012	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Fluorene	0.0097	U	0.33	0.0097	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
4-Nitroaniline	0.038	U	0.33	0.038	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
N-Nitrosodiphenylamine	0.027	U	0.33	0.027	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
4-Bromophenyl phenyl ether	0.013	U	0.33	0.013	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Hexachlorobenzene	0.016	U	0.033	0.016	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Phenanthrene	0.014	U	0.33	0.014	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Anthracene	0.010	U	0.33	0.010	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Carbazole	0.013	U	0.33	0.013	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Di-n-butyl phthalate	0.012	U	0.33	0.012	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Fluoranthene	0.012	U	0.33	0.012	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Pyrene	0.0082	U	0.33	0.0082	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Butyl benzyl phthalate	0.016	U	0.33	0.016	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Benzo[a]anthracene	0.025	U	0.033	0.025	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Chrysene	0.014	U	0.33	0.014	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Bis(2-ethylhexyl) phthalate	0.017	U	0.33	0.017	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Di-n-octyl phthalate	0.018	U	0.33	0.018	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Benzo[b]fluoranthene	0.0086	U	0.033	0.0086	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Benzo[k]fluoranthene	0.0065	U	0.033	0.0065	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Benzo[a]pyrene	0.0088	U	0.033	0.0088	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Indeno[1,2,3-cd]pyrene	0.013	U	0.033	0.013	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Dibenz(a,h)anthracene	0.014	U	0.033	0.014	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Benzo[g,h,i]perylene	0.0098	U	0.33	0.0098	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Diphenyl	0.012	U	0.33	0.012	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Acetophenone	0.016	U	0.33	0.016	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Benzaldehyde	0.055	U	0.33	0.055	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Caprolactam	0.051	U	0.33	0.051	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Atrazine	0.019	U	0.13	0.019	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2,2'-oxybis[1-chloropropane]	0.020	U	0.33	0.020	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
1,2,4,5-Tetrachlorobenzene	0.010	U	0.33	0.010	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
2,3,4,6-Tetrachlorophenol	0.022	U	0.33	0.022	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
3,3'-Dichlorobenzidine	0.050	U	0.13	0.050	mg/Kg		02/23/23 22:13	02/24/23 09:28	1
Bis(2-chloroethoxy)methane	0.026	U	0.33	0.026	mg/Kg		02/23/23 22:13	02/24/23 09:28	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*mg/Kg*			*N/A*	*02/23/23 22:13*	*02/24/23 09:28*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*89*		*16 - 125*	*02/23/23 22:13*	*02/24/23 09:28*	*1*
Phenol-d5	*84*		*23 - 120*	*02/23/23 22:13*	*02/24/23 09:28*	*1*
Terphenyl-d14	*101*		*25 - 126*	*02/23/23 22:13*	*02/24/23 09:28*	*1*
2,4,6-Tribromophenol	*101*		*10 - 123*	*02/23/23 22:13*	*02/24/23 09:28*	*1*
2-Fluorophenol	*83*		*18 - 123*	*02/23/23 22:13*	*02/24/23 09:28*	*1*
2-Fluorobiphenyl	*92*		*22 - 122*	*02/23/23 22:13*	*02/24/23 09:28*	*1*

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

Lab Sample ID: LCS 460-894612/2-A
Matrix: Solid
Analysis Batch: 894672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	3.33	2.62		mg/Kg		79	63 - 120
2-Chlorophenol	3.33	2.60		mg/Kg		78	63 - 120
2-Methylphenol	3.33	2.67		mg/Kg		80	63 - 120
4-Methylphenol	3.33	2.74		mg/Kg		82	61 - 120
2-Nitrophenol	3.33	3.05		mg/Kg		92	64 - 120
2,4-Dimethylphenol	3.33	2.84		mg/Kg		85	67 - 120
2,4-Dichlorophenol	3.33	2.93		mg/Kg		88	66 - 120
4-Chloro-3-methylphenol	3.33	2.94		mg/Kg		88	66 - 120
2,4,6-Trichlorophenol	3.33	3.36		mg/Kg		101	58 - 120
2,4,5-Trichlorophenol	3.33	3.16		mg/Kg		95	59 - 120
2,4-Dinitrotoluene	3.33	3.72		mg/Kg		112	65 - 124
4-Nitrophenol	6.67	6.78		mg/Kg		102	52 - 123
4,6-Dinitro-2-methylphenol	6.67	10.8	*+	mg/Kg		162	50 - 136
Pentachlorophenol	6.67	7.21		mg/Kg		108	37 - 126
N-Nitrosodimethylamine	3.33	2.53		mg/Kg		76	57 - 120
Bis(2-chloroethyl)ether	3.33	2.55		mg/Kg		76	60 - 120
N-Nitrosodi-n-propylamine	3.33	2.87		mg/Kg		86	61 - 120
Hexachloroethane	3.33	2.47		mg/Kg		74	61 - 120
Nitrobenzene	3.33	2.81		mg/Kg		84	63 - 120
Isophorone	3.33	2.91		mg/Kg		87	67 - 120
Naphthalene	3.33	2.78		mg/Kg		84	63 - 120
4-Chloroaniline	3.33	2.89		mg/Kg		87	15 - 128
Hexachlorobutadiene	3.33	2.63		mg/Kg		79	62 - 120
2-Methylnaphthalene	3.33	2.77		mg/Kg		83	64 - 120
Hexachlorocyclopentadiene	3.33	2.47		mg/Kg		74	38 - 120
2-Chloronaphthalene	3.33	3.10		mg/Kg		93	60 - 120
2-Nitroaniline	3.33	3.22		mg/Kg		97	48 - 120
Dimethyl phthalate	3.33	3.22		mg/Kg		96	65 - 120
Acenaphthylene	3.33	2.98		mg/Kg		90	64 - 120
2,6-Dinitrotoluene	3.33	3.37		mg/Kg		101	67 - 121
3-Nitroaniline	3.33	3.26		mg/Kg		98	39 - 122
Acenaphthene	3.33	3.18		mg/Kg		95	49 - 120
Dibenzofuran	3.33	3.19		mg/Kg		96	61 - 120
2,4-Dinitrophenol	6.67	10.7	*+	mg/Kg		160	36 - 129
Diethyl phthalate	3.33	3.23		mg/Kg		97	63 - 120
4-Chlorophenyl phenyl ether	3.33	3.13		mg/Kg		94	62 - 120
Fluorene	3.33	3.25		mg/Kg		98	60 - 120
4-Nitroaniline	3.33	3.19		mg/Kg		96	55 - 120
N-Nitrosodiphenylamine	3.33	3.07		mg/Kg		92	63 - 120
4-Bromophenyl phenyl ether	3.33	2.98		mg/Kg		89	67 - 120
Hexachlorobenzene	3.33	2.84		mg/Kg		85	66 - 120
Phenanthrene	3.33	3.10		mg/Kg		93	66 - 120
Anthracene	3.33	3.17		mg/Kg		95	67 - 120
Carbazole	3.33	3.09		mg/Kg		93	64 - 120
Di-n-butyl phthalate	3.33	3.26		mg/Kg		98	66 - 120
Fluoranthene	3.33	3.14		mg/Kg		94	61 - 120
Pyrene	3.33	3.35		mg/Kg		100	61 - 121
Butyl benzyl phthalate	3.33	3.40		mg/Kg		102	62 - 127

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

Lab Sample ID: LCS 460-894612/2-A
Matrix: Solid
Analysis Batch: 894672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]anthracene	3.33	3.30		mg/Kg		99	62 - 120
Chrysene	3.33	3.17		mg/Kg		95	63 - 120
Bis(2-ethylhexyl) phthalate	3.33	3.39		mg/Kg		102	59 - 125
Di-n-octyl phthalate	3.33	3.55		mg/Kg		107	65 - 133
Benzo[b]fluoranthene	3.33	3.45		mg/Kg		104	70 - 125
Benzo[k]fluoranthene	3.33	3.16		mg/Kg		95	67 - 122
Benzo[a]pyrene	3.33	3.13		mg/Kg		94	73 - 123
Indeno[1,2,3-cd]pyrene	3.33	3.44		mg/Kg		103	62 - 130
Dibenz(a,h)anthracene	3.33	3.44		mg/Kg		103	66 - 128
Benzo[g,h,i]perylene	3.33	3.09		mg/Kg		93	66 - 120
Diphenyl	3.33	3.16		mg/Kg		95	59 - 120
Acetophenone	3.33	2.65		mg/Kg		80	61 - 120
Benzaldehyde	1.33	1.10		mg/Kg		82	34 - 150
Caprolactam	1.33	1.46		mg/Kg		109	36 - 150
Atrazine	1.33	1.43		mg/Kg		107	29 - 150
2,2'-oxybis[1-chloropropane]	3.33	3.15		mg/Kg		94	49 - 126
1,2,4,5-Tetrachlorobenzene	3.33	3.07		mg/Kg		92	60 - 120
2,3,4,6-Tetrachlorophenol	3.33	3.48		mg/Kg		104	54 - 120
3,3'-Dichlorobenzidine	3.33	3.07		mg/Kg		92	13 - 136
Bis(2-chloroethoxy)methane	3.33	2.83		mg/Kg		85	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*76*		*16 - 125*
Phenol-d5	*73*		*23 - 120*
Terphenyl-d14	*90*		*25 - 126*
2,4,6-Tribromophenol	*90*		*10 - 123*
2-Fluorophenol	*69*		*18 - 123*
2-Fluorobiphenyl	*84*		*22 - 122*

Lab Sample ID: LCSD 460-894612/3-A
Matrix: Solid
Analysis Batch: 894672

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 894612

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	3.33	2.64		mg/Kg		79	63 - 120	1	30
2-Chlorophenol	3.33	2.77		mg/Kg		83	63 - 120	6	30
2-Methylphenol	3.33	2.73		mg/Kg		82	63 - 120	2	30
4-Methylphenol	3.33	2.81		mg/Kg		84	61 - 120	2	30
2-Nitrophenol	3.33	3.18		mg/Kg		95	64 - 120	4	30
2,4-Dimethylphenol	3.33	2.84		mg/Kg		85	67 - 120	0	30
2,4-Dichlorophenol	3.33	2.94		mg/Kg		88	66 - 120	0	30
4-Chloro-3-methylphenol	3.33	2.95		mg/Kg		88	66 - 120	0	30
2,4,6-Trichlorophenol	3.33	3.32		mg/Kg		100	58 - 120	1	30
2,4,5-Trichlorophenol	3.33	3.11		mg/Kg		93	59 - 120	1	30
2,4-Dinitrotoluene	3.33	3.54		mg/Kg		106	65 - 124	5	30
4-Nitrophenol	6.67	6.71		mg/Kg		101	52 - 123	1	30
4,6-Dinitro-2-methylphenol	6.67	10.3	*+	mg/Kg		154	50 - 136	5	30
Pentachlorophenol	6.67	7.00		mg/Kg		105	37 - 126	3	30

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

Lab Sample ID: LCSD 460-894612/3-A
Matrix: Solid
Analysis Batch: 894672

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 894612

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodimethylamine	3.33	2.65		mg/Kg		79	57 - 120	5	30
Bis(2-chloroethyl)ether	3.33	2.70		mg/Kg		81	60 - 120	6	30
N-Nitrosodi-n-propylamine	3.33	2.95		mg/Kg		88	61 - 120	3	30
Hexachloroethane	3.33	2.68		mg/Kg		80	61 - 120	8	30
Nitrobenzene	3.33	2.89		mg/Kg		87	63 - 120	3	30
Isophorone	3.33	2.92		mg/Kg		88	67 - 120	0	30
Naphthalene	3.33	2.83		mg/Kg		85	63 - 120	2	30
4-Chloroaniline	3.33	2.94		mg/Kg		88	15 - 128	1	30
Hexachlorobutadiene	3.33	2.71		mg/Kg		81	62 - 120	3	30
2-Methylnaphthalene	3.33	2.76		mg/Kg		83	64 - 120	0	30
Hexachlorocyclopentadiene	3.33	2.42		mg/Kg		72	38 - 120	2	30
2-Chloronaphthalene	3.33	3.10		mg/Kg		93	60 - 120	0	30
2-Nitroaniline	3.33	3.16		mg/Kg		95	48 - 120	2	30
Dimethyl phthalate	3.33	3.19		mg/Kg		96	65 - 120	1	30
Acenaphthylene	3.33	2.96		mg/Kg		89	64 - 120	1	30
2,6-Dinitrotoluene	3.33	3.30		mg/Kg		99	67 - 121	2	30
3-Nitroaniline	3.33	3.22		mg/Kg		97	39 - 122	1	30
Acenaphthene	3.33	3.14		mg/Kg		94	49 - 120	1	30
Dibenzofuran	3.33	3.17		mg/Kg		95	61 - 120	1	30
2,4-Dinitrophenol	6.67	10.5	*+	mg/Kg		157	36 - 129	2	30
Diethyl phthalate	3.33	3.18		mg/Kg		95	63 - 120	2	30
4-Chlorophenyl phenyl ether	3.33	3.11		mg/Kg		93	62 - 120	1	30
Fluorene	3.33	3.21		mg/Kg		96	60 - 120	1	30
4-Nitroaniline	3.33	3.08		mg/Kg		92	55 - 120	4	30
N-Nitrosodiphenylamine	3.33	3.07		mg/Kg		92	63 - 120	0	30
4-Bromophenyl phenyl ether	3.33	2.92		mg/Kg		88	67 - 120	2	30
Hexachlorobenzene	3.33	2.81		mg/Kg		84	66 - 120	1	30
Phenanthrene	3.33	3.06		mg/Kg		92	66 - 120	1	30
Anthracene	3.33	3.10		mg/Kg		93	67 - 120	2	30
Carbazole	3.33	3.06		mg/Kg		92	64 - 120	1	30
Di-n-butyl phthalate	3.33	3.19		mg/Kg		96	66 - 120	2	30
Fluoranthene	3.33	3.10		mg/Kg		93	61 - 120	1	30
Pyrene	3.33	3.23		mg/Kg		97	61 - 121	4	30
Butyl benzyl phthalate	3.33	3.31		mg/Kg		99	62 - 127	3	30
Benzo[a]anthracene	3.33	3.24		mg/Kg		97	62 - 120	2	30
Chrysene	3.33	2.97		mg/Kg		89	63 - 120	6	30
Bis(2-ethylhexyl) phthalate	3.33	3.30		mg/Kg		99	59 - 125	3	30
Di-n-octyl phthalate	3.33	3.41		mg/Kg		102	65 - 133	4	30
Benzo[b]fluoranthene	3.33	3.33		mg/Kg		100	70 - 125	4	30
Benzo[k]fluoranthene	3.33	3.18		mg/Kg		96	67 - 122	1	30
Benzo[a]pyrene	3.33	3.04		mg/Kg		91	73 - 123	3	30
Indeno[1,2,3-cd]pyrene	3.33	3.26		mg/Kg		98	62 - 130	5	30
Dibenz(a,h)anthracene	3.33	3.32		mg/Kg		100	66 - 128	3	30
Benzo[g,h,i]perylene	3.33	2.97		mg/Kg		89	66 - 120	4	30
Diphenyl	3.33	3.12		mg/Kg		94	59 - 120	1	30
Acetophenone	3.33	2.75		mg/Kg		82	61 - 120	3	30
Benzaldehyde	1.33	1.23		mg/Kg		92	34 - 150	12	30
Caprolactam	1.33	1.47		mg/Kg		111	36 - 150	1	30
Atrazine	1.33	1.43		mg/Kg		107	29 - 150	0	30

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

Lab Sample ID: LCSD 460-894612/3-A
Matrix: Solid
Analysis Batch: 894672

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 894612

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,2'-oxybis[1-chloropropane]			3.33	3.25		mg/Kg		98	49 - 126	3	30
1,2,4,5-Tetrachlorobenzene			3.33	3.09		mg/Kg		93	60 - 120	1	30
2,3,4,6-Tetrachlorophenol			3.33	3.40		mg/Kg		102	54 - 120	2	30
3,3'-Dichlorobenzidine			3.33	2.98		mg/Kg		89	13 - 136	3	30
Bis(2-chloroethoxy)methane			3.33	2.84		mg/Kg		85	62 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*78*		*16 - 125*
Phenol-d5	*75*		*23 - 120*
Terphenyl-d14	*88*		*25 - 126*
2,4,6-Tribromophenol	*88*		*10 - 123*
2-Fluorophenol	*73*		*18 - 123*
2-Fluorobiphenyl	*82*		*22 - 122*

Lab Sample ID: 460-275096-B-2-A MS
Matrix: Solid
Analysis Batch: 894672

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 894612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	0.014	U	3.73	3.05		mg/Kg	☼	82	63 - 120
2-Chlorophenol	0.013	U	3.73	3.08		mg/Kg	☼	82	63 - 120
2-Methylphenol	0.014	U	3.73	3.10		mg/Kg	☼	83	63 - 120
4-Methylphenol	0.023	U	3.73	3.23		mg/Kg	☼	86	61 - 120
2-Nitrophenol	0.037	U	3.73	3.15		mg/Kg	☼	84	64 - 120
2,4-Dimethylphenol	0.044	U	3.73	3.32		mg/Kg	☼	89	67 - 120
2,4-Dichlorophenol	0.024	U	3.73	3.45		mg/Kg	☼	92	66 - 120
4-Chloro-3-methylphenol	0.021	U	3.73	3.41		mg/Kg	☼	91	66 - 120
2,4,6-Trichlorophenol	0.048	U	3.73	3.93		mg/Kg	☼	105	58 - 120
2,4,5-Trichlorophenol	0.038	U	3.73	3.69		mg/Kg	☼	99	59 - 120
2,4-Dinitrotoluene	0.040	U	3.73	3.46		mg/Kg	☼	93	65 - 124
4-Nitrophenol	0.060	U	7.47	7.28		mg/Kg	☼	98	52 - 123
4,6-Dinitro-2-methylphenol	0.15	U *+ F1	7.47	1.39	F1 *+	mg/Kg	☼	19	50 - 136
Pentachlorophenol	0.076	U	7.47	8.28		mg/Kg	☼	111	37 - 126
N-Nitrosodimethylamine	0.034	U	3.73	2.65		mg/Kg	☼	71	57 - 120
Bis(2-chloroethyl)ether	0.013	U	3.73	2.89		mg/Kg	☼	77	60 - 120
N-Nitrosodi-n-propylamine	0.027	U	3.73	3.17		mg/Kg	☼	85	61 - 120
Hexachloroethane	0.013	U	3.73	2.64		mg/Kg	☼	71	61 - 120
Nitrobenzene	0.021	U	3.73	3.14		mg/Kg	☼	84	63 - 120
Isophorone	0.11	U	3.73	3.31		mg/Kg	☼	89	67 - 120
Naphthalene	0.031	J	3.73	3.28		mg/Kg	☼	87	63 - 120
4-Chloroaniline	0.066	U	3.73	3.04		mg/Kg	☼	82	15 - 128
Hexachlorobutadiene	0.0079	U	3.73	3.17		mg/Kg	☼	85	62 - 120
2-Methylnaphthalene	0.014	J	3.73	3.19		mg/Kg	☼	85	64 - 120
Hexachlorocyclopentadiene	0.033	U F1	3.73	0.674	F1	mg/Kg	☼	18	38 - 120
2-Chloronaphthalene	0.017	U	3.73	3.65		mg/Kg	☼	98	60 - 120
2-Nitroaniline	0.028	U	3.73	3.52		mg/Kg	☼	94	48 - 120
Dimethyl phthalate	0.084	U	3.73	3.68		mg/Kg	☼	98	65 - 120
Acenaphthylene	0.048	J	3.73	3.43		mg/Kg	☼	91	64 - 120

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

Lab Sample ID: 460-275096-B-2-A MS
Matrix: Solid
Analysis Batch: 894672

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 894612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	0.027	U	3.73	3.50		mg/Kg	☼	94	67 - 121
3-Nitroaniline	0.088	U	3.73	3.77		mg/Kg	☼	101	39 - 122
Acenaphthene	0.055	J	3.73	3.69		mg/Kg	☼	97	49 - 120
Dibenzofuran	0.032	J	3.73	3.69		mg/Kg	☼	98	61 - 120
2,4-Dinitrophenol	0.18	U *+ F1	7.47	1.08	F1 *+	mg/Kg	☼	14	36 - 129
Diethyl phthalate	0.012	U	3.73	3.65		mg/Kg	☼	98	63 - 120
4-Chlorophenyl phenyl ether	0.013	U	3.73	3.64		mg/Kg	☼	97	62 - 120
Fluorene	0.046	J	3.73	3.72		mg/Kg	☼	98	60 - 120
4-Nitroaniline	0.043	U	3.73	3.26		mg/Kg	☼	87	55 - 120
N-Nitrosodiphenylamine	0.030	U	3.73	3.50		mg/Kg	☼	94	63 - 120
4-Bromophenyl phenyl ether	0.015	U	3.73	3.41		mg/Kg	☼	91	67 - 120
Hexachlorobenzene	0.018	U	3.73	3.25		mg/Kg	☼	87	66 - 120
Phenanthrene	0.66		3.73	3.93		mg/Kg	☼	87	66 - 120
Anthracene	0.17	J	3.73	3.81		mg/Kg	☼	97	67 - 120
Carbazole	0.077	J	3.73	3.56		mg/Kg	☼	93	64 - 120
Di-n-butyl phthalate	0.014	J	3.73	3.72		mg/Kg	☼	99	66 - 120
Fluoranthene	1.2		3.73	4.32		mg/Kg	☼	84	61 - 120
Pyrene	1.1		3.73	4.26		mg/Kg	☼	84	61 - 121
Butyl benzyl phthalate	0.017	U	3.73	3.95		mg/Kg	☼	106	62 - 127
Benzo[a]anthracene	0.62		3.73	4.04		mg/Kg	☼	92	62 - 120
Chrysene	0.58		3.73	3.68		mg/Kg	☼	83	63 - 120
Bis(2-ethylhexyl) phthalate	0.068	J	3.73	3.95		mg/Kg	☼	104	59 - 125
Di-n-octyl phthalate	0.020	U F1	3.73	4.94		mg/Kg	☼	132	65 - 133
Benzo[b]fluoranthene	0.89		3.73	4.59		mg/Kg	☼	99	70 - 125
Benzo[k]fluoranthene	0.35		3.73	4.21		mg/Kg	☼	103	67 - 122
Benzo[a]pyrene	0.62		3.73	4.01		mg/Kg	☼	91	73 - 123
Indeno[1,2,3-cd]pyrene	0.29		3.73	3.07		mg/Kg	☼	75	62 - 130
Dibenz(a,h)anthracene	0.059	F1 F2	3.73	2.00	F1	mg/Kg	☼	52	66 - 128
Benzo[g,h,i]perylene	0.22	J F1	3.73	2.34	F1	mg/Kg	☼	57	66 - 120
Diphenyl	0.013	U	3.73	3.61		mg/Kg	☼	97	59 - 120
Acetophenone	0.018	U	3.73	3.00		mg/Kg	☼	80	61 - 120
Benzaldehyde	0.061	U	1.49	1.12		mg/Kg	☼	75	34 - 150
Caprolactam	0.058	U	1.49	1.63		mg/Kg	☼	109	36 - 150
Atrazine	0.022	U	1.49	1.63		mg/Kg	☼	109	29 - 150
2,2'-oxybis[1-chloropropane]	0.022	U	3.73	3.53		mg/Kg	☼	94	49 - 126
1,2,4,5-Tetrachlorobenzene	0.012	U	3.73	3.59		mg/Kg	☼	96	60 - 120
2,3,4,6-Tetrachlorophenol	0.025	U	3.73	4.00		mg/Kg	☼	107	54 - 120
3,3'-Dichlorobenzidine	0.056	U	3.73	2.50		mg/Kg	☼	67	13 - 136
Bis(2-chloroethoxy)methane	0.029	U	3.73	3.20		mg/Kg	☼	86	62 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5	*76*		*16 - 125*
Phenol-d5	*74*		*23 - 120*
Terphenyl-d14	*90*		*25 - 126*
2,4,6-Tribromophenol	*89*		*10 - 123*
2-Fluorophenol	*70*		*18 - 123*
2-Fluorobiphenyl	*84*		*22 - 122*

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

Lab Sample ID: 460-275096-B-2-B MSD
Matrix: Solid
Analysis Batch: 894672

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 894612

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	0.014	U	3.73	3.19		mg/Kg	☼	86	63 - 120	4	30
2-Chlorophenol	0.013	U	3.73	3.19		mg/Kg	☼	86	63 - 120	4	30
2-Methylphenol	0.014	U	3.73	3.24		mg/Kg	☼	87	63 - 120	4	30
4-Methylphenol	0.023	U	3.73	3.32		mg/Kg	☼	89	61 - 120	3	30
2-Nitrophenol	0.037	U	3.73	3.20		mg/Kg	☼	86	64 - 120	2	30
2,4-Dimethylphenol	0.044	U	3.73	3.40		mg/Kg	☼	91	67 - 120	2	30
2,4-Dichlorophenol	0.024	U	3.73	3.53		mg/Kg	☼	95	66 - 120	2	30
4-Chloro-3-methylphenol	0.021	U	3.73	3.50		mg/Kg	☼	94	66 - 120	3	30
2,4,6-Trichlorophenol	0.048	U	3.73	4.09		mg/Kg	☼	110	58 - 120	4	30
2,4,5-Trichlorophenol	0.038	U	3.73	3.92		mg/Kg	☼	105	59 - 120	6	30
2,4-Dinitrotoluene	0.040	U	3.73	3.57		mg/Kg	☼	96	65 - 124	3	30
4-Nitrophenol	0.060	U	7.45	7.70		mg/Kg	☼	103	52 - 123	6	30
4,6-Dinitro-2-methylphenol	0.15	U *+ F1	7.45	1.60	F1 *+	mg/Kg	☼	21	50 - 136	14	30
Pentachlorophenol	0.076	U	7.45	8.48		mg/Kg	☼	114	37 - 126	2	30
N-Nitrosodimethylamine	0.034	U	3.73	2.93		mg/Kg	☼	79	57 - 120	10	30
Bis(2-chloroethyl)ether	0.013	U	3.73	3.04		mg/Kg	☼	82	60 - 120	5	30
N-Nitrosodi-n-propylamine	0.027	U	3.73	3.28		mg/Kg	☼	88	61 - 120	4	30
Hexachloroethane	0.013	U	3.73	2.76		mg/Kg	☼	74	61 - 120	4	30
Nitrobenzene	0.021	U	3.73	3.36		mg/Kg	☼	90	63 - 120	7	30
Isophorone	0.11	U	3.73	3.40		mg/Kg	☼	91	67 - 120	3	30
Naphthalene	0.031	J	3.73	3.39		mg/Kg	☼	90	63 - 120	3	30
4-Chloroaniline	0.066	U	3.73	3.22		mg/Kg	☼	86	15 - 128	6	30
Hexachlorobutadiene	0.0079	U	3.73	3.27		mg/Kg	☼	88	62 - 120	3	30
2-Methylnaphthalene	0.014	J	3.73	3.32		mg/Kg	☼	89	64 - 120	4	30
Hexachlorocyclopentadiene	0.033	U F1	3.73	0.858	F1	mg/Kg	☼	23	38 - 120	24	30
2-Chloronaphthalene	0.017	U	3.73	3.80		mg/Kg	☼	102	60 - 120	4	30
2-Nitroaniline	0.028	U	3.73	3.65		mg/Kg	☼	98	48 - 120	4	30
Dimethyl phthalate	0.084	U	3.73	3.85		mg/Kg	☼	103	65 - 120	5	30
Acenaphthylene	0.048	J	3.73	3.60		mg/Kg	☼	95	64 - 120	5	30
2,6-Dinitrotoluene	0.027	U	3.73	3.58		mg/Kg	☼	96	67 - 121	2	30
3-Nitroaniline	0.088	U	3.73	4.04		mg/Kg	☼	109	39 - 122	7	30
Acenaphthene	0.055	J	3.73	3.85		mg/Kg	☼	102	49 - 120	4	30
Dibenzofuran	0.032	J	3.73	3.86		mg/Kg	☼	103	61 - 120	4	30
2,4-Dinitrophenol	0.18	U *+ F1	7.45	1.26	F1 *+	mg/Kg	☼	17	36 - 129	15	30
Diethyl phthalate	0.012	U	3.73	3.77		mg/Kg	☼	101	63 - 120	3	30
4-Chlorophenyl phenyl ether	0.013	U	3.73	3.82		mg/Kg	☼	102	62 - 120	5	30
Fluorene	0.046	J	3.73	3.88		mg/Kg	☼	103	60 - 120	4	30
4-Nitroaniline	0.043	U	3.73	3.60		mg/Kg	☼	97	55 - 120	10	30
N-Nitrosodiphenylamine	0.030	U	3.73	3.64		mg/Kg	☼	98	63 - 120	4	30
4-Bromophenyl phenyl ether	0.015	U	3.73	3.50		mg/Kg	☼	94	67 - 120	3	30
Hexachlorobenzene	0.018	U	3.73	3.33		mg/Kg	☼	89	66 - 120	2	30
Phenanthrene	0.66		3.73	3.94		mg/Kg	☼	88	66 - 120	0	30
Anthracene	0.17	J	3.73	3.83		mg/Kg	☼	98	67 - 120	0	30
Carbazole	0.077	J	3.73	3.65		mg/Kg	☼	96	64 - 120	2	30
Di-n-butyl phthalate	0.014	J	3.73	3.82		mg/Kg	☼	102	66 - 120	3	30
Fluoranthene	1.2		3.73	4.26		mg/Kg	☼	83	61 - 120	1	30
Pyrene	1.1		3.73	4.33		mg/Kg	☼	86	61 - 121	2	30
Butyl benzyl phthalate	0.017	U	3.73	4.09		mg/Kg	☼	110	62 - 127	4	30

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

Lab Sample ID: 460-275096-B-2-B MSD
Matrix: Solid
Analysis Batch: 894672

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 894612

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]anthracene	0.62		3.73	4.05		mg/Kg	☼	92	62 - 120	0	30
Chrysene	0.58		3.73	3.62		mg/Kg	☼	82	63 - 120	1	30
Bis(2-ethylhexyl) phthalate	0.068	J	3.73	4.06		mg/Kg	☼	107	59 - 125	3	30
Di-n-octyl phthalate	0.020	U F1	3.73	5.09	F1	mg/Kg	☼	137	65 - 133	3	30
Benzo[b]fluoranthene	0.89		3.73	4.35		mg/Kg	☼	93	70 - 125	5	30
Benzo[k]fluoranthene	0.35		3.73	4.15		mg/Kg	☼	102	67 - 122	1	30
Benzo[a]pyrene	0.62		3.73	3.85		mg/Kg	☼	87	73 - 123	4	30
Indeno[1,2,3-cd]pyrene	0.29		3.73	3.45		mg/Kg	☼	85	62 - 130	12	30
Dibenz(a,h)anthracene	0.059	F1 F2	3.73	3.31	F2	mg/Kg	☼	87	66 - 128	49	30
Benzo[g,h,i]perylene	0.22	J F1	3.73	3.10		mg/Kg	☼	77	66 - 120	28	30
Diphenyl	0.013	U	3.73	3.78		mg/Kg	☼	101	59 - 120	5	30
Acetophenone	0.018	U	3.73	3.11		mg/Kg	☼	83	61 - 120	3	30
Benzaldehyde	0.061	U	1.49	1.28	E	mg/Kg	☼	86	34 - 150	13	30
Caprolactam	0.058	U	1.49	1.51		mg/Kg	☼	101	36 - 150	8	30
Atrazine	0.022	U	1.49	1.52		mg/Kg	☼	102	29 - 150	7	30
2,2'-oxybis[1-chloropropane]	0.022	U	3.73	3.72		mg/Kg	☼	100	49 - 126	5	30
1,2,4,5-Tetrachlorobenzene	0.012	U	3.73	3.73		mg/Kg	☼	100	60 - 120	4	30
2,3,4,6-Tetrachlorophenol	0.025	U	3.73	4.11		mg/Kg	☼	110	54 - 120	3	30
3,3'-Dichlorobenzidine	0.056	U	3.73	3.19		mg/Kg	☼	86	13 - 136	24	30
Bis(2-chloroethoxy)methane	0.029	U	3.73	3.32		mg/Kg	☼	89	62 - 120	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*80*		*16 - 125*
Phenol-d5	*77*		*23 - 120*
Terphenyl-d14	*94*		*25 - 126*
2,4,6-Tribromophenol	*93*		*10 - 123*
2-Fluorophenol	*74*		*18 - 123*
2-Fluorobiphenyl	*90*		*22 - 122*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-894803/1-A
Matrix: Solid
Analysis Batch: 894763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
cis-Chlordane	0.0011	U	0.0067	0.0011	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
cis-Chlordane	0.0011	U	0.0067	0.0011	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		02/24/23 16:57	02/27/23 07:52	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-894803/1-A
Matrix: Solid
Analysis Batch: 894763

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Chlordane	0.016	U	0.067	0.016	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Chlordane	0.016	U	0.067	0.016	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
trans-Chlordane	0.0012	U	0.0067	0.0012	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
trans-Chlordane	0.0012	U	0.0067	0.0012	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		02/24/23 16:57	02/27/23 07:52	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		02/24/23 16:57	02/27/23 07:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*104*		*43 - 150*	*02/24/23 16:57*	*02/27/23 07:52*	*1*
DCB Decachlorobiphenyl	*109*		*43 - 150*	*02/24/23 16:57*	*02/27/23 07:52*	*1*
Tetrachloro-m-xylene	*105*		*26 - 137*	*02/24/23 16:57*	*02/27/23 07:52*	*1*
Tetrachloro-m-xylene	*105*		*26 - 137*	*02/24/23 16:57*	*02/27/23 07:52*	*1*

Lab Sample ID: LCS 460-894803/2-A
Matrix: Solid
Analysis Batch: 894763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.133	0.153		mg/Kg		115	64 - 132
4,4'-DDD	0.133	0.165		mg/Kg		124	64 - 132
4,4'-DDE	0.133	0.160		mg/Kg		120	71 - 137
4,4'-DDE	0.133	0.164		mg/Kg		123	71 - 137
4,4'-DDT	0.133	0.154		mg/Kg		116	55 - 138

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-894803/2-A
Matrix: Solid
Analysis Batch: 894763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDT	0.133	0.150		mg/Kg		113	55 - 138
Aldrin	0.133	0.164		mg/Kg		123	67 - 130
Aldrin	0.133	0.157		mg/Kg		118	67 - 130
alpha-BHC	0.133	0.163		mg/Kg		122	72 - 132
alpha-BHC	0.133	0.155		mg/Kg		116	72 - 132
cis-Chlordane	0.133	0.159		mg/Kg		119	63 - 136
cis-Chlordane	0.133	0.155		mg/Kg		116	63 - 136
beta-BHC	0.133	0.157		mg/Kg		117	71 - 137
beta-BHC	0.133	0.155		mg/Kg		116	71 - 137
delta-BHC	0.133	0.150		mg/Kg		113	61 - 143
delta-BHC	0.133	0.142		mg/Kg		107	61 - 143
Dieldrin	0.133	0.156		mg/Kg		117	66 - 135
Dieldrin	0.133	0.154		mg/Kg		116	66 - 135
Endosulfan I	0.133	0.156		mg/Kg		117	64 - 135
Endosulfan I	0.133	0.154		mg/Kg		116	64 - 135
Endosulfan II	0.133	0.149		mg/Kg		111	64 - 130
Endosulfan II	0.133	0.152		mg/Kg		114	64 - 130
Endosulfan sulfate	0.133	0.131		mg/Kg		99	61 - 134
Endosulfan sulfate	0.133	0.131		mg/Kg		98	61 - 134
Endrin	0.133	0.125		mg/Kg		93	63 - 136
Endrin	0.133	0.128		mg/Kg		96	63 - 136
Endrin aldehyde	0.133	0.176		mg/Kg		132	60 - 132
Endrin aldehyde	0.133	0.175		mg/Kg		131	60 - 132
Endrin ketone	0.133	0.164		mg/Kg		123	48 - 150
Endrin ketone	0.133	0.155		mg/Kg		117	48 - 150
gamma-BHC (Lindane)	0.133	0.167		mg/Kg		125	70 - 134
gamma-BHC (Lindane)	0.133	0.157		mg/Kg		118	70 - 134
trans-Chlordane	0.133	0.162		mg/Kg		121	65 - 137
trans-Chlordane	0.133	0.158		mg/Kg		118	65 - 137
Heptachlor	0.133	0.161		mg/Kg		121	62 - 134
Heptachlor	0.133	0.154		mg/Kg		115	62 - 134
Heptachlor epoxide	0.133	0.162		mg/Kg		121	65 - 127
Heptachlor epoxide	0.133	0.155		mg/Kg		117	65 - 127
Methoxychlor	0.133	0.161		mg/Kg		121	49 - 128
Methoxychlor	0.133	0.156		mg/Kg		117	49 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*97*		*43 - 150*
DCB Decachlorobiphenyl	*103*		*43 - 150*
Tetrachloro-m-xylene	*102*		*26 - 137*
Tetrachloro-m-xylene	*86*		*26 - 137*

Lab Sample ID: LCSD 460-894803/3-A
Matrix: Solid
Analysis Batch: 894763

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 894803

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.133	0.145		mg/Kg		109	64 - 132	5	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-894803/3-A
Matrix: Solid
Analysis Batch: 894763

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 894803

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.133	0.155		mg/Kg		117	64 - 132	6	30
4,4'-DDE	0.133	0.152		mg/Kg		114	71 - 137	5	30
4,4'-DDE	0.133	0.156		mg/Kg		117	71 - 137	5	30
4,4'-DDT	0.133	0.146		mg/Kg		110	55 - 138	5	30
4,4'-DDT	0.133	0.141		mg/Kg		106	55 - 138	7	30
Aldrin	0.133	0.156		mg/Kg		117	67 - 130	6	30
Aldrin	0.133	0.150		mg/Kg		112	67 - 130	5	30
alpha-BHC	0.133	0.153		mg/Kg		115	72 - 132	6	30
alpha-BHC	0.133	0.145		mg/Kg		109	72 - 132	7	30
cis-Chlordane	0.133	0.151		mg/Kg		113	63 - 136	5	30
cis-Chlordane	0.133	0.147		mg/Kg		110	63 - 136	5	30
beta-BHC	0.133	0.149		mg/Kg		112	71 - 137	5	30
beta-BHC	0.133	0.146		mg/Kg		109	71 - 137	6	30
delta-BHC	0.133	0.141		mg/Kg		106	61 - 143	6	30
delta-BHC	0.133	0.134		mg/Kg		100	61 - 143	6	30
Dieldrin	0.133	0.149		mg/Kg		112	66 - 135	5	30
Dieldrin	0.133	0.146		mg/Kg		109	66 - 135	6	30
Endosulfan I	0.133	0.148		mg/Kg		111	64 - 135	5	30
Endosulfan I	0.133	0.146		mg/Kg		110	64 - 135	5	30
Endosulfan II	0.133	0.142		mg/Kg		106	64 - 130	5	30
Endosulfan II	0.133	0.143		mg/Kg		108	64 - 130	6	30
Endosulfan sulfate	0.133	0.122		mg/Kg		92	61 - 134	7	30
Endosulfan sulfate	0.133	0.121		mg/Kg		91	61 - 134	8	30
Endrin	0.133	0.125		mg/Kg		93	63 - 136	0	30
Endrin	0.133	0.127		mg/Kg		95	63 - 136	1	30
Endrin aldehyde	0.133	0.164		mg/Kg		123	60 - 132	7	30
Endrin aldehyde	0.133	0.162		mg/Kg		122	60 - 132	8	30
Endrin ketone	0.133	0.153		mg/Kg		114	48 - 150	7	30
Endrin ketone	0.133	0.144		mg/Kg		108	48 - 150	8	30
gamma-BHC (Lindane)	0.133	0.157		mg/Kg		118	70 - 134	6	30
gamma-BHC (Lindane)	0.133	0.148		mg/Kg		111	70 - 134	6	30
trans-Chlordane	0.133	0.154		mg/Kg		115	65 - 137	5	30
trans-Chlordane	0.133	0.150		mg/Kg		113	65 - 137	5	30
Heptachlor	0.133	0.153		mg/Kg		115	62 - 134	5	30
Heptachlor	0.133	0.145		mg/Kg		109	62 - 134	5	30
Heptachlor epoxide	0.133	0.154		mg/Kg		115	65 - 127	5	30
Heptachlor epoxide	0.133	0.148		mg/Kg		111	65 - 127	5	30
Methoxychlor	0.133	0.152		mg/Kg		114	49 - 128	6	30
Methoxychlor	0.133	0.146		mg/Kg		109	49 - 128	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*92*		*43 - 150*
DCB Decachlorobiphenyl	*95*		*43 - 150*
Tetrachloro-m-xylene	*95*		*26 - 137*
Tetrachloro-m-xylene	*96*		*26 - 137*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-894804/1-A
Matrix: Solid
Analysis Batch: 894759

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
4,4'-DDD	0.0011	U	0.0067	0.0011	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
4,4'-DDE	0.00079	U	0.0067	0.00079	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
4,4'-DDT	0.0012	U	0.0067	0.0012	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Aldrin	0.0010	U	0.0067	0.0010	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
alpha-BHC	0.00068	U	0.0020	0.00068	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
cis-Chlordane	0.0011	U	0.0067	0.0011	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
cis-Chlordane	0.0011	U	0.0067	0.0011	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
beta-BHC	0.00075	U	0.0020	0.00075	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Chlordane	0.016	U	0.067	0.016	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Chlordane	0.016	U	0.067	0.016	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
delta-BHC	0.00041	U	0.0020	0.00041	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Dieldrin	0.00087	U	0.0020	0.00087	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Endosulfan I	0.0010	U	0.0067	0.0010	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Endosulfan II	0.0017	U	0.0067	0.0017	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Endosulfan sulfate	0.00084	U	0.0067	0.00084	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Endrin	0.00096	U	0.0067	0.00096	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Endrin aldehyde	0.0016	U	0.0067	0.0016	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Endrin ketone	0.0013	U	0.0067	0.0013	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
gamma-BHC (Lindane)	0.00062	U	0.0020	0.00062	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
trans-Chlordane	0.0012	U	0.0067	0.0012	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
trans-Chlordane	0.0012	U	0.0067	0.0012	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Heptachlor	0.00079	U	0.0067	0.00079	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Heptachlor epoxide	0.0010	U	0.0067	0.0010	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Methoxychlor	0.0015	U	0.0067	0.0015	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		02/24/23 16:58	02/27/23 09:32	1
Toxaphene	0.024	U	0.067	0.024	mg/Kg		02/24/23 16:58	02/27/23 09:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*43 - 150*	*02/24/23 16:58*	*02/27/23 09:32*	*1*
DCB Decachlorobiphenyl	*99*		*43 - 150*	*02/24/23 16:58*	*02/27/23 09:32*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-894804/1-A
Matrix: Solid
Analysis Batch: 894759

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894804

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		26 - 137	02/24/23 16:58	02/27/23 09:32	1
Tetrachloro-m-xylene	92		26 - 137	02/24/23 16:58	02/27/23 09:32	1

Lab Sample ID: LCS 460-894804/2-A
Matrix: Solid
Analysis Batch: 894759

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.133	0.137		mg/Kg		103	64 - 132
4,4'-DDD	0.133	0.154		mg/Kg		116	64 - 132
4,4'-DDE	0.133	0.129		mg/Kg		97	71 - 137
4,4'-DDE	0.133	0.140		mg/Kg		105	71 - 137
4,4'-DDT	0.133	0.116		mg/Kg		87	55 - 138
4,4'-DDT	0.133	0.125		mg/Kg		94	55 - 138
Aldrin	0.133	0.133		mg/Kg		100	67 - 130
Aldrin	0.133	0.143		mg/Kg		107	67 - 130
alpha-BHC	0.133	0.135		mg/Kg		102	72 - 132
alpha-BHC	0.133	0.146		mg/Kg		109	72 - 132
cis-Chlordane	0.133	0.129		mg/Kg		96	63 - 136
cis-Chlordane	0.133	0.142		mg/Kg		107	63 - 136
beta-BHC	0.133	0.122		mg/Kg		91	71 - 137
beta-BHC	0.133	0.142		mg/Kg		106	71 - 137
delta-BHC	0.133	0.137		mg/Kg		102	61 - 143
delta-BHC	0.133	0.146		mg/Kg		110	61 - 143
Dieldrin	0.133	0.129		mg/Kg		97	66 - 135
Dieldrin	0.133	0.140		mg/Kg		105	66 - 135
Endosulfan I	0.133	0.123		mg/Kg		92	64 - 135
Endosulfan I	0.133	0.137		mg/Kg		103	64 - 135
Endosulfan II	0.133	0.126		mg/Kg		95	64 - 130
Endosulfan II	0.133	0.137		mg/Kg		103	64 - 130
Endosulfan sulfate	0.133	0.120		mg/Kg		90	61 - 134
Endosulfan sulfate	0.133	0.125		mg/Kg		94	61 - 134
Endrin	0.133	0.124		mg/Kg		93	63 - 136
Endrin	0.133	0.135		mg/Kg		101	63 - 136
Endrin aldehyde	0.133	0.138		mg/Kg		104	60 - 132
Endrin aldehyde	0.133	0.152		mg/Kg		114	60 - 132
Endrin ketone	0.133	0.138		mg/Kg		103	48 - 150
Endrin ketone	0.133	0.150		mg/Kg		113	48 - 150
gamma-BHC (Lindane)	0.133	0.133		mg/Kg		100	70 - 134
gamma-BHC (Lindane)	0.133	0.147		mg/Kg		110	70 - 134
trans-Chlordane	0.133	0.134		mg/Kg		100	65 - 137
trans-Chlordane	0.133	0.145		mg/Kg		109	65 - 137
Heptachlor	0.133	0.131		mg/Kg		98	62 - 134
Heptachlor	0.133	0.139		mg/Kg		105	62 - 134
Heptachlor epoxide	0.133	0.130		mg/Kg		98	65 - 127
Heptachlor epoxide	0.133	0.141		mg/Kg		105	65 - 127
Methoxychlor	0.133	0.116		mg/Kg		87	49 - 128
Methoxychlor	0.133	0.124		mg/Kg		93	49 - 128

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-894804/2-A
Matrix: Solid
Analysis Batch: 894759

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894804

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*76*		*43 - 150*
DCB Decachlorobiphenyl	*79*		*43 - 150*
Tetrachloro-m-xylene	*77*		*26 - 137*
Tetrachloro-m-xylene	*80*		*26 - 137*

Lab Sample ID: LCSD 460-894804/3-A
Matrix: Solid
Analysis Batch: 894759

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 894804

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	0.133	0.133		mg/Kg		100	64 - 132	3	30
4,4'-DDD	0.133	0.149		mg/Kg		111	64 - 132	4	30
4,4'-DDE	0.133	0.126		mg/Kg		95	71 - 137	3	30
4,4'-DDE	0.133	0.135		mg/Kg		101	71 - 137	4	30
4,4'-DDT	0.133	0.112		mg/Kg		84	55 - 138	3	30
4,4'-DDT	0.133	0.121		mg/Kg		91	55 - 138	4	30
Aldrin	0.133	0.129		mg/Kg		97	67 - 130	2	30
Aldrin	0.133	0.137		mg/Kg		103	67 - 130	4	30
alpha-BHC	0.133	0.133		mg/Kg		99	72 - 132	2	30
alpha-BHC	0.133	0.141		mg/Kg		105	72 - 132	4	30
cis-Chlordane	0.133	0.125		mg/Kg		94	63 - 136	3	30
cis-Chlordane	0.133	0.138		mg/Kg		103	63 - 136	3	30
beta-BHC	0.133	0.121		mg/Kg		90	71 - 137	1	30
beta-BHC	0.133	0.136		mg/Kg		102	71 - 137	4	30
delta-BHC	0.133	0.133		mg/Kg		100	61 - 143	3	30
delta-BHC	0.133	0.140		mg/Kg		105	61 - 143	4	30
Dieldrin	0.133	0.126		mg/Kg		94	66 - 135	2	30
Dieldrin	0.133	0.134		mg/Kg		100	66 - 135	4	30
Endosulfan I	0.133	0.120		mg/Kg		90	64 - 135	3	30
Endosulfan I	0.133	0.132		mg/Kg		99	64 - 135	4	30
Endosulfan II	0.133	0.123		mg/Kg		92	64 - 130	2	30
Endosulfan II	0.133	0.133		mg/Kg		99	64 - 130	4	30
Endosulfan sulfate	0.133	0.117		mg/Kg		88	61 - 134	3	30
Endosulfan sulfate	0.133	0.120		mg/Kg		90	61 - 134	5	30
Endrin	0.133	0.120		mg/Kg		90	63 - 136	3	30
Endrin	0.133	0.130		mg/Kg		97	63 - 136	4	30
Endrin aldehyde	0.133	0.135		mg/Kg		101	60 - 132	2	30
Endrin aldehyde	0.133	0.146		mg/Kg		110	60 - 132	3	30
Endrin ketone	0.133	0.134		mg/Kg		101	48 - 150	2	30
Endrin ketone	0.133	0.145		mg/Kg		109	48 - 150	4	30
gamma-BHC (Lindane)	0.133	0.131		mg/Kg		98	70 - 134	1	30
gamma-BHC (Lindane)	0.133	0.142		mg/Kg		106	70 - 134	4	30
trans-Chlordane	0.133	0.130		mg/Kg		98	65 - 137	2	30
trans-Chlordane	0.133	0.140		mg/Kg		105	65 - 137	4	30
Heptachlor	0.133	0.128		mg/Kg		96	62 - 134	3	30
Heptachlor	0.133	0.134		mg/Kg		100	62 - 134	4	30
Heptachlor epoxide	0.133	0.127		mg/Kg		95	65 - 127	3	30
Heptachlor epoxide	0.133	0.135		mg/Kg		101	65 - 127	4	30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-894804/3-A
Matrix: Solid
Analysis Batch: 894759

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 894804

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methoxychlor			0.133	0.112		mg/Kg		84	49 - 128	3	30
Methoxychlor			0.133	0.119		mg/Kg		89	49 - 128	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*74*		*43 - 150*
DCB Decachlorobiphenyl	*77*		*43 - 150*
Tetrachloro-m-xylene	*75*		*26 - 137*
Tetrachloro-m-xylene	*78*		*26 - 137*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-894801/1-A
Matrix: Solid
Analysis Batch: 895113

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1262	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1262	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:49	02/27/23 17:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*10 - 150*	*02/24/23 16:49*	*02/27/23 17:47*	*1*
DCB Decachlorobiphenyl	*99*		*10 - 150*	*02/24/23 16:49*	*02/27/23 17:47*	*1*
Tetrachloro-m-xylene	*84*		*42 - 150*	*02/24/23 16:49*	*02/27/23 17:47*	*1*
Tetrachloro-m-xylene	*94*		*42 - 150*	*02/24/23 16:49*	*02/27/23 17:47*	*1*

Lab Sample ID: LCS 460-894801/2-A
Matrix: Solid
Analysis Batch: 895113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894801

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1016			0.333	0.291		mg/Kg		87	65 - 133		
Aroclor 1016			0.333	0.325		mg/Kg		97	65 - 133		

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 460-894801/2-A
Matrix: Solid
Analysis Batch: 895113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894801

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor 1260			0.333	0.308		mg/Kg		92	67 - 150		
Aroclor 1260			0.333	0.307		mg/Kg		92	67 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*107*		*10 - 150*
DCB Decachlorobiphenyl	*116*		*10 - 150*
Tetrachloro-m-xylene	*97*		*42 - 150*
Tetrachloro-m-xylene	*110*		*42 - 150*

Lab Sample ID: LCSD 460-894801/3-A
Matrix: Solid
Analysis Batch: 895113

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 894801

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			0.333	0.291		mg/Kg		87	65 - 133	0	30
Aroclor 1016			0.333	0.338		mg/Kg		101	65 - 133	4	30
Aroclor 1260			0.333	0.310		mg/Kg		93	67 - 150	1	30
Aroclor 1260			0.333	0.313		mg/Kg		94	67 - 150	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*107*		*10 - 150*
DCB Decachlorobiphenyl	*118*		*10 - 150*
Tetrachloro-m-xylene	*100*		*42 - 150*
Tetrachloro-m-xylene	*115*		*42 - 150*

Lab Sample ID: MB 460-894802/1-A
Matrix: Solid
Analysis Batch: 895114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1016	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1221	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1232	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1242	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1248	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1254	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1260	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1262	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1262	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1
Aroclor 1268	0.018	U	0.067	0.018	mg/Kg		02/24/23 16:53	02/27/23 18:52	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 460-894802/1-A
Matrix: Solid
Analysis Batch: 895114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894802

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	105		10 - 150	02/24/23 16:53	02/27/23 18:52	1
DCB Decachlorobiphenyl	102		10 - 150	02/24/23 16:53	02/27/23 18:52	1
Tetrachloro-m-xylene	101		42 - 150	02/24/23 16:53	02/27/23 18:52	1
Tetrachloro-m-xylene	98		42 - 150	02/24/23 16:53	02/27/23 18:52	1

Lab Sample ID: LCS 460-894802/2-A
Matrix: Solid
Analysis Batch: 895114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.333	0.335		mg/Kg		101	65 - 133
Aroclor 1016	0.333	0.324		mg/Kg		97	65 - 133
Aroclor 1260	0.333	0.341		mg/Kg		102	67 - 150
Aroclor 1260	0.333	0.318		mg/Kg		95	67 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	117		10 - 150
DCB Decachlorobiphenyl	110		10 - 150
Tetrachloro-m-xylene	114		42 - 150
Tetrachloro-m-xylene	110		42 - 150

Lab Sample ID: LCSD 460-894802/3-A
Matrix: Solid
Analysis Batch: 895114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 894802

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.333	0.322		mg/Kg		97	65 - 133	1	30
Aroclor 1016	0.333	0.327		mg/Kg		98	65 - 133	3	30
Aroclor 1260	0.333	0.333		mg/Kg		100	67 - 150	2	30
Aroclor 1260	0.333	0.318		mg/Kg		95	67 - 150	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	118		10 - 150
DCB Decachlorobiphenyl	112		10 - 150
Tetrachloro-m-xylene	114		42 - 150
Tetrachloro-m-xylene	111		42 - 150

Lab Sample ID: 460-275142-F-5-D MS
Matrix: Solid
Analysis Batch: 895114

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 894802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016	0.021	U	0.398	0.536	F1	mg/Kg	☼	135	65 - 133
Aroclor 1016	0.021	U F1	0.398	0.518		mg/Kg	☼	130	65 - 133
Aroclor 1260	0.021	U	0.398	0.512		mg/Kg	☼	129	67 - 150
Aroclor 1260	0.021	U	0.398	0.446		mg/Kg	☼	112	67 - 150

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-275142-F-5-D MS
Matrix: Solid
Analysis Batch: 895114

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 894802

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*138*		*10 - 150*
DCB Decachlorobiphenyl	*123*		*10 - 150*
Tetrachloro-m-xylene	*123*		*42 - 150*
Tetrachloro-m-xylene	*124*		*42 - 150*

Lab Sample ID: 460-275142-F-5-E MSD
Matrix: Solid
Analysis Batch: 895114

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 894802

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016	0.021	U	0.400	0.472		mg/Kg	☼	118	65 - 133	13	30
Aroclor 1016	0.021	U F1	0.400	0.434		mg/Kg	☼	108	65 - 133	18	30
Aroclor 1260	0.021	U	0.400	0.451		mg/Kg	☼	113	67 - 150	13	30
Aroclor 1260	0.021	U	0.400	0.381		mg/Kg	☼	95	67 - 150	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*121*		*10 - 150*
DCB Decachlorobiphenyl	*108*		*10 - 150*
Tetrachloro-m-xylene	*105*		*42 - 150*
Tetrachloro-m-xylene	*105*		*42 - 150*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 460-894428/1-A
Matrix: Solid
Analysis Batch: 895135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.082	U	1.0	0.082	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Arsenic	0.31	U	1.5	0.31	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Beryllium	0.022	U	0.20	0.022	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Calcium	21.4	U	500	21.4	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Cadmium	0.078	U	0.40	0.078	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Cobalt	0.25	U	5.0	0.25	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Chromium	0.11	U	1.0	0.11	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Copper	0.18	U	2.5	0.18	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Iron	3.0	U	15.0	3.0	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Potassium	24.6	U	500	24.6	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Magnesium	29.7	U	500	29.7	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Manganese	0.12	U	1.5	0.12	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Sodium	28.0	U	500	28.0	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Nickel	0.14	U	4.0	0.14	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Lead	0.26	U	1.0	0.26	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Antimony	0.19	U	2.0	0.19	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Selenium	0.62	U	2.0	0.62	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Thallium	0.30	U	2.0	0.30	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Vanadium	0.27	U	5.0	0.27	mg/Kg		02/23/23 05:48	02/27/23 22:50	1
Zinc	0.17	U	3.0	0.17	mg/Kg		02/23/23 05:48	02/27/23 22:50	1

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

Lab Sample ID: MB 460-894428/1-A
Matrix: Solid
Analysis Batch: 895539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.082	U	1.0	0.082	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Aluminum	1.5	U	20.0	1.5	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Arsenic	0.31	U	1.5	0.31	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Barium	0.76	U	20.0	0.76	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Beryllium	0.022	U	0.20	0.022	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Calcium	21.4	U	500	21.4	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Cadmium	0.078	U	0.40	0.078	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Cobalt	0.25	U	5.0	0.25	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Chromium	0.11	U	1.0	0.11	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Copper	0.18	U	2.5	0.18	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Iron	3.0	U	15.0	3.0	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Potassium	24.6	U	500	24.6	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Magnesium	29.7	U	500	29.7	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Manganese	0.12	U	1.5	0.12	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Sodium	28.0	U	500	28.0	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Nickel	0.14	U	4.0	0.14	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Lead	0.26	U	1.0	0.26	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Antimony	0.19	U	2.0	0.19	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Selenium	0.62	U	2.0	0.62	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Thallium	0.30	U	2.0	0.30	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Vanadium	0.27	U	5.0	0.27	mg/Kg		02/23/23 05:48	03/01/23 19:54	1
Zinc	0.17	U	3.0	0.17	mg/Kg		02/23/23 05:48	03/01/23 19:54	1

Lab Sample ID: LCSSRM 460-894428/2-A
Matrix: Solid
Analysis Batch: 895135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894428

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Silver	67.8	60.22		mg/Kg		88.8	79.8 - 120.1
Arsenic	183	161.3		mg/Kg		88.1	83.1 - 116.9
Beryllium	78.8	80.76		mg/Kg		102.5	83.0 - 117.0
Calcium	4710	4164		mg/Kg		88.4	81.3 - 118.5
Cadmium	221	187.9		mg/Kg		85.0	82.4 - 117.2
Cobalt	97.4	93.22		mg/Kg		95.7	83.3 - 117.0
Chromium	200	202.8		mg/Kg		101.4	81.5 - 118.5
Copper	136	125.3		mg/Kg		92.1	83.8 - 116.2
Iron	14000	13040		mg/Kg		93.2	60.1 - 140.0
Potassium	2030	1860		mg/Kg		91.6	70.0 - 130.0
Magnesium	2290	1947		mg/Kg		85.0	75.5 - 124.5
Manganese	381	376.4		mg/Kg		98.8	81.6 - 118.1

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

Lab Sample ID: LCSSRM 460-894428/2-A
Matrix: Solid
Analysis Batch: 895135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894428

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	427	388.4	J	mg/Kg		91.0	74.0 - 126.0
Nickel	169	150.7		mg/Kg		89.2	82.2 - 117.2
Lead	257	239.4		mg/Kg		93.2	82.1 - 117.9
Antimony	129	80.34		mg/Kg		62.3	9.8 - 189.9
Selenium	217	205.4		mg/Kg		94.7	79.3 - 121.2
Thallium	80.5	80.82		mg/Kg		100.4	80.7 - 119.4
Vanadium	205	186.7		mg/Kg		91.1	78.5 - 121.0
Zinc	224	227.2		mg/Kg		101.4	80.4 - 119.6

Lab Sample ID: LCSSRM 460-894428/2-A
Matrix: Solid
Analysis Batch: 895539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894428

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Silver	67.8	68.68		mg/Kg		101.3	79.8 - 120.1
Aluminum	8040	7588		mg/Kg		94.4	47.6 - 151.7
Arsenic	183	192.0		mg/Kg		104.9	83.1 - 116.9
Barium	297	301.0		mg/Kg		101.3	82.2 - 118.2
Beryllium	78.8	78.02		mg/Kg		99.0	83.0 - 117.0
Calcium	4710	4718		mg/Kg		100.2	81.3 - 118.5
Cadmium	221	217.8		mg/Kg		98.6	82.4 - 117.2
Cobalt	97.4	101.3		mg/Kg		104.0	83.3 - 117.0
Chromium	200	203.4		mg/Kg		101.7	81.5 - 118.5
Copper	136	137.9		mg/Kg		101.4	83.8 - 116.2
Iron	14000	14530		mg/Kg		103.8	60.1 - 140.0
Potassium	2030	1930		mg/Kg		95.1	70.0 - 130.0
Magnesium	2290	2254		mg/Kg		98.4	75.5 - 124.5
Manganese	381	393.4		mg/Kg		103.3	81.6 - 118.1
Sodium	427	439.8	J	mg/Kg		103.0	74.0 - 126.0
Nickel	169	173.6		mg/Kg		102.7	82.2 - 117.2

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

Lab Sample ID: LCSSRM 460-894428/2-A
Matrix: Solid
Analysis Batch: 895539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894428

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Lead	257	279.6		mg/Kg		108.8	82.1 - 117.9
Antimony	129	84.40		mg/Kg		65.4	9.8 - 189.9
Selenium	217	224.6		mg/Kg		103.5	79.3 - 121.2
Thallium	80.5	84.50		mg/Kg		105.0	80.7 - 119.4
Vanadium	205	210.0		mg/Kg		102.4	78.5 - 121.0
Zinc	224	234.0		mg/Kg		104.5	80.4 - 119.6

Lab Sample ID: 460-275007-H-1-D MS
Matrix: Solid
Analysis Batch: 895135

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 894428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.16	U	5.00	4.27		mg/Kg		85	75 - 125
Arsenic	0.63	U	200	157.4		mg/Kg		79	75 - 125
Beryllium	0.044	U	5.00	4.99		mg/Kg		100	75 - 125
Calcium	731	J F1	2000	3316	F1	mg/Kg		129	75 - 125
Cadmium	0.16	U	5.00	4.21		mg/Kg		84	75 - 125
Cobalt	0.51	J	50.0	46.62		mg/Kg		92	75 - 125
Chromium	5.6		20.0	26.12		mg/Kg		103	75 - 125
Copper	3.0	J	25.0	22.78		mg/Kg		79	75 - 125
Iron	4430		100	4440	4	mg/Kg		8	75 - 125
Potassium	72.9	J	2000	1929		mg/Kg		93	75 - 125
Magnesium	239	J	2000	2390		mg/Kg		108	75 - 125
Manganese	14.2		50.0	64.26		mg/Kg		100	75 - 125
Sodium	59.0	J	2000	1784		mg/Kg		86	75 - 125
Nickel	1.2	J	50.0	44.58		mg/Kg		87	75 - 125
Lead	3.4		50.0	47.62		mg/Kg		88	75 - 125
Antimony	0.38	U	50.0	38.96		mg/Kg		78	75 - 125
Selenium	1.2	U	200	168.4		mg/Kg		84	75 - 125
Thallium	0.60	U	200	193.0		mg/Kg		97	75 - 125
Vanadium	4.8	J	50.0	48.90		mg/Kg		88	75 - 125
Zinc	11.0		50.0	60.14		mg/Kg		98	75 - 125

Lab Sample ID: 460-275007-H-1-D MS
Matrix: Solid
Analysis Batch: 895539

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 894428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.16	U	5.00	4.65		mg/Kg		93	75 - 125
Aluminum	1680		200	2416	4	mg/Kg		370	75 - 125
Arsenic	1.3	J	200	182.4		mg/Kg		91	75 - 125
Barium	5.0	J	200	210.6		mg/Kg		103	75 - 125
Beryllium	0.044	U	5.00	5.03		mg/Kg		101	75 - 125
Calcium	823	J F1	2000	3712	F1	mg/Kg		144	75 - 125
Cadmium	0.16	U	5.00	5.15		mg/Kg		103	75 - 125

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

Lab Sample ID: 460-275007-H-1-D MS
Matrix: Solid
Analysis Batch: 895539

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 894428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.57	J	50.0	50.84		mg/Kg		101	75 - 125
Chromium	5.7		20.0	26.84		mg/Kg		105	75 - 125
Copper	2.6	J	25.0	25.12		mg/Kg		90	75 - 125
Iron	4930		100	4918	4	mg/Kg		-8	75 - 125
Potassium	79.6	J	2000	2040		mg/Kg		98	75 - 125
Magnesium	266	J	2000	2688		mg/Kg		121	75 - 125
Manganese	15.3		50.0	68.28		mg/Kg		106	75 - 125
Sodium	55.9	U	2000	1990		mg/Kg		100	75 - 125
Nickel	0.82	J	50.0	52.58		mg/Kg		104	75 - 125
Lead	4.3		50.0	54.74		mg/Kg		101	75 - 125
Antimony	0.38	U	50.0	41.36		mg/Kg		83	75 - 125
Selenium	1.2	U	200	182.5		mg/Kg		91	75 - 125
Thallium	0.60	U	200	208.6		mg/Kg		104	75 - 125
Vanadium	5.3	J	50.0	54.32		mg/Kg		98	75 - 125
Zinc	10.8		50.0	63.56		mg/Kg		105	75 - 125

Lab Sample ID: 460-275007-H-1-C DU
Matrix: Solid
Analysis Batch: 895135

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 894428

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	0.16	U	0.16	U	mg/Kg		NC	20
Arsenic	0.63	U	0.806	J	mg/Kg		NC	20
Beryllium	0.044	U	0.044	U	mg/Kg		NC	20
Calcium	731	J F1	730.4	J	mg/Kg		0	20
Cadmium	0.16	U	0.16	U	mg/Kg		NC	20
Cobalt	0.51	J	0.516	J	mg/Kg		0.3	20
Chromium	5.6		5.62		mg/Kg		1	20
Copper	3.0	J	2.95	J	mg/Kg		0.5	20
Iron	4430		4404		mg/Kg		0.6	20
Potassium	72.9	J	66.88	J	mg/Kg		9	20
Magnesium	239	J	238.0	J	mg/Kg		0.3	20
Manganese	14.2		14.08		mg/Kg		0.6	20
Sodium	59.0	J	59.36	J	mg/Kg		0.6	20
Nickel	1.2	J	1.19	J	mg/Kg		3	20
Lead	3.4		3.43		mg/Kg		1	20
Antimony	0.38	U	0.38	U	mg/Kg		NC	20
Selenium	1.2	U	1.2	U	mg/Kg		NC	20
Thallium	0.60	U	0.60	U	mg/Kg		NC	20
Vanadium	4.8	J	4.80	J	mg/Kg		0.3	20
Zinc	11.0		10.91		mg/Kg		0.5	20

Lab Sample ID: 460-275007-H-1-C DU
Matrix: Solid
Analysis Batch: 895539

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 894428

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	0.16	U	0.16	U	mg/Kg		NC	20
Aluminum	1680		1705		mg/Kg		2	20

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

Lab Sample ID: 460-275007-H-1-C DU
Matrix: Solid
Analysis Batch: 895539

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 894428

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	1.3	J	0.654	J F5	mg/Kg		67	20
Barium	5.0	J	5.01	J	mg/Kg		0.8	20
Beryllium	0.044	U	0.044	U	mg/Kg		NC	20
Calcium	823	J F1	826.8	J	mg/Kg		0.4	20
Cadmium	0.16	U	0.16	U	mg/Kg		NC	20
Cobalt	0.57	J	0.595	J	mg/Kg		5	20
Chromium	5.7		5.85		mg/Kg		2	20
Copper	2.6	J	2.49	J	mg/Kg		5	20
Iron	4930		5046		mg/Kg		2	20
Potassium	79.6	J	88.34	J	mg/Kg		10	20
Magnesium	266	J	270.8	J	mg/Kg		2	20
Manganese	15.3		15.38		mg/Kg		0.3	20
Sodium	55.9	U	55.9	U	mg/Kg		NC	20
Nickel	0.82	J	0.656	J F5	mg/Kg		23	20
Lead	4.3		4.31		mg/Kg		1	20
Antimony	0.38	U	0.38	U	mg/Kg		NC	20
Selenium	1.2	U	1.2	U	mg/Kg		NC	20
Thallium	0.60	U	0.60	U	mg/Kg		NC	20
Vanadium	5.3	J	5.43	J	mg/Kg		3	20
Zinc	10.8		10.90		mg/Kg		0.8	20

Lab Sample ID: MB 460-894980/1-A
Matrix: Solid
Analysis Batch: 895135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 894980

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	3.2	U	10.0	3.2	ug/L		02/26/23 13:17	02/27/23 16:06	1
Arsenic	5.0	U	15.0	5.0	ug/L		02/26/23 13:17	02/27/23 16:06	1
Barium	28.0	U	200	28.0	ug/L		02/26/23 13:17	02/27/23 16:06	1
Cadmium	0.36	U	4.0	0.36	ug/L		02/26/23 13:17	02/27/23 16:06	1
Chromium	5.0	U	10.0	5.0	ug/L		02/26/23 13:17	02/27/23 16:06	1
Lead	2.6	U	10.0	2.6	ug/L		02/26/23 13:17	02/27/23 16:06	1
Selenium	7.0	U	20.0	7.0	ug/L		02/26/23 13:17	02/27/23 16:06	1

Lab Sample ID: LCS 460-894980/2-A ^2
Matrix: Solid
Analysis Batch: 895135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 894980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	500	470.6		ug/L		94	80 - 120
Arsenic	5000	4864		ug/L		97	80 - 120
Barium	10000	10080		ug/L		101	80 - 120
Cadmium	1000	1036		ug/L		104	80 - 120
Chromium	5000	5266		ug/L		105	80 - 120
Lead	5000	5188		ug/L		104	80 - 120
Selenium	1000	1004		ug/L		100	80 - 120

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

Lab Sample ID: LB 460-894916/1-B ^5
Matrix: Solid
Analysis Batch: 895135

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 894980

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	15.9	U	50.0	15.9	ug/L		02/26/23 13:17	02/27/23 17:44	5
Arsenic	24.8	U	75.0	24.8	ug/L		02/26/23 13:17	02/27/23 17:44	5
Barium	140	U	1000	140	ug/L		02/26/23 13:17	02/27/23 17:44	5
Cadmium	1.8	U	20.0	1.8	ug/L		02/26/23 13:17	02/27/23 17:44	5
Chromium	24.9	U	50.0	24.9	ug/L		02/26/23 13:17	02/27/23 17:44	5
Lead	12.8	U	50.0	12.8	ug/L		02/26/23 13:17	02/27/23 17:44	5
Selenium	35.1	U	100	35.1	ug/L		02/26/23 13:17	02/27/23 17:44	5

Lab Sample ID: 460-275074-3 MS
Matrix: Solid
Analysis Batch: 895135

Client Sample ID: SB3-436
Prep Type: TCLP
Prep Batch: 894980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Silver	15.9	U	500	534.0		ug/L		107	75 - 125		
Arsenic	24.8	U	5000	5745		ug/L		115	75 - 125		
Barium	955	J	10000	12170		ug/L		112	75 - 125		
Cadmium	3.1	J	1000	1159		ug/L		116	75 - 125		
Chromium	24.9	U	5000	5815		ug/L		116	75 - 125		
Lead	639		5000	6310		ug/L		113	75 - 125		
Selenium	35.1	U	1000	1204		ug/L		120	75 - 125		

Lab Sample ID: 460-275074-3 DU
Matrix: Solid
Analysis Batch: 895135

Client Sample ID: SB3-436
Prep Type: TCLP
Prep Batch: 894980

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Silver	15.9	U		15.9	U	ug/L				NC	20
Arsenic	24.8	U		24.8	U	ug/L				NC	20
Barium	955	J		959.5	J	ug/L				0.5	20
Cadmium	3.1	J		3.05	J	ug/L				2	20
Chromium	24.9	U		24.9	U	ug/L				NC	20
Lead	639			633.0		ug/L				0.9	20
Selenium	35.1	U		35.1	U	ug/L				NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-895094/1-A
Matrix: Solid
Analysis Batch: 895148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 895094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		02/27/23 12:56	02/27/23 15:14	1

Lab Sample ID: LCS 460-895094/28-A
Matrix: Solid
Analysis Batch: 895148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 895094

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			5.00	4.77		ug/L		95	80 - 120		

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 460-894916/1-E — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 895148 — **Prep Batch: 895094**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	U	0.20	0.091	ug/L		02/27/23 12:56	02/27/23 16:08	1

Lab Sample ID: 460-275041-B-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 895148 — **Prep Batch: 895094**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.091	U	5.00	5.05		ug/L		101	75 - 125		

Lab Sample ID: 460-275041-B-1-D DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 895148 — **Prep Batch: 895094**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	0.091	U		0.091	U	ug/L				NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-894618/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894673 — **Prep Batch: 894618**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		02/24/23 00:20	02/24/23 04:10	1

Lab Sample ID: LCSSRM 460-894618/11-A ^40 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894673 — **Prep Batch: 894618**

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			18.2	17.23		mg/Kg		94.7	73.1 - 126.9		

Lab Sample ID: 460-274345-A-83-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894673 — **Prep Batch: 894618**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.049		0.0855	0.145		mg/Kg	☼	112	80 - 120		

Lab Sample ID: 460-274345-A-83-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894673 — **Prep Batch: 894618**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.049		0.0855	0.148		mg/Kg	☼	116	80 - 120	2	20

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

Lab Sample ID: 460-274345-A-83-B DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894673 — **Prep Batch: 894618**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	0.049			0.0524		mg/Kg	☼			7	20

Lab Sample ID: MB 460-894625/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894673 — **Prep Batch: 894625**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		02/24/23 00:48	02/24/23 05:04	1

Lab Sample ID: LCSSRM 460-894625/2-A ^40 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894673 — **Prep Batch: 894625**

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			18.2	16.97		mg/Kg		93.3	73.1 - 126.9		

Lab Sample ID: 460-275074-4 MS — **Client Sample ID: SB4-301**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894673 — **Prep Batch: 894625**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.63		0.0849	0.694	4	mg/Kg	☼	72	80 - 120		

Lab Sample ID: 460-275074-4 DU — **Client Sample ID: SB4-301**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894673 — **Prep Batch: 894625**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	0.63			0.632		mg/Kg	☼			0.2	20

Lab Sample ID: MB 460-895012/10-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 895057 — **Prep Batch: 895012**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0080	U	0.017	0.0080	mg/Kg		02/27/23 00:14	02/27/23 04:29	1

Lab Sample ID: LCSSRM 460-895012/11-A ^40 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 895057 — **Prep Batch: 895012**

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			18.2	19.00		mg/Kg		104.4	73.1 - 126.9		

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

Lab Sample ID: 460-275248-A-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 895057 — **Prep Batch: 895012**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.010	U	0.108	0.111		mg/Kg	☼	103	80 - 120		

Lab Sample ID: 460-275248-A-1-D DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 895057 — **Prep Batch: 895012**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	0.010	U		0.010	U	mg/Kg	☼			NC	20

Method: 1030 - Ignitability, Solids

Lab Sample ID: 460-274793-E-5 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 895300

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Burn Rate	2.20	U		2.20	U	mm/sec				NC	10

Method: 9014 - Cyanide, Reactive

Lab Sample ID: MB 460-894794/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894796 — **Prep Batch: 894794**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	25.0	U	25.0	25.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1

Lab Sample ID: LCS 460-894794/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894796 — **Prep Batch: 894794**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Reactive			40.0	25.0	U	mg/Kg		12	10 - 100		

Lab Sample ID: 460-274642-D-7-E DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894796 — **Prep Batch: 894794**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Reactive	25.0	U		25.0	U	mg/Kg				NC	10

Method: 9034 - Sulfide, Reactive

Lab Sample ID: MB 460-894793/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894795 — **Prep Batch: 894793**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	20.0	U	20.0	20.0	mg/Kg		02/24/23 10:00	02/24/23 14:00	1

Method: 9034 - Sulfide, Reactive (Continued)

Lab Sample ID: LCSSRM 460-894793/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894795 — **Prep Batch: 894793**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	70.9	76.94		mg/Kg		108.5	46.7 - 142.5

Lab Sample ID: 460-274642-D-7-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894795 — **Prep Batch: 894793**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide, Reactive	20.0	U	458	333.4		mg/Kg		73	64 - 136

Lab Sample ID: 460-274642-D-7-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894795 — **Prep Batch: 894793**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide, Reactive	20.0	U	458	349.5		mg/Kg		76	64 - 136	5	10

Method: 9045D - pH

Lab Sample ID: MB 460-894925/2 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894925

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.0				SU			02/25/23 13:38	1
Temperature	24.7				Degrees C			02/25/23 13:38	1

Lab Sample ID: LCSSRM 460-894925/3 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894925

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
pH	6.27	6.3		SU		101.0	96.8 - 103.2

Lab Sample ID: 460-275227-E-2 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 894925

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.4		8.4		SU		0.4	10
Temperature	22.0		22.1		Degrees C		0.5	10

Lab Sample ID: MB 460-895297/2 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 895297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.0				SU			02/28/23 12:05	1
Temperature	25.2				Degrees C			02/28/23 12:05	1

Method: 9045D - pH (Continued)

Lab Sample ID: LCSSRM 460-895297/3
Matrix: Solid
Analysis Batch: 895297

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits		
pH			6.27	6.3		SU		100.6	96.8 - 103.2		

Lab Sample ID: 460-275074-6 DU
Matrix: Solid
Analysis Batch: 895297

Client Sample ID: SB6-301
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.9	HF		7.9		SU				0.5	10
Temperature	24.4	HF		24.6		Degrees C				0.8	10

Method: Moisture - Percent Moisture

Lab Sample ID: 460-275021-A-6 DU
Matrix: Solid
Analysis Batch: 894426

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	3.3			3.3		%				0.5	20
Percent Solids	96.7			96.7		%				0	20

Lab Sample ID: 460-275071-D-11 DU
Matrix: Solid
Analysis Batch: 894426

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1.0	U		1.0	U	%				NC	20
Percent Solids	99.3			99.2		%				0.2	20

Lab Sample ID: 460-275071-D-15 DU
Matrix: Solid
Analysis Batch: 894426

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1.9			2.2		%				16	20
Percent Solids	98.1			97.8		%				0.3	20

QC Association Summary

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

GC/MS VOA

Prep Batch: 894478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	5035	
460-275074-2	SB2-436	Total/NA	Solid	5035	
460-275074-3	SB3-436	Total/NA	Solid	5035	
460-275074-4	SB4-301	Total/NA	Solid	5035	
460-275074-5	SB5-301	Total/NA	Solid	5035	
460-275074-6	SB6-301	Total/NA	Solid	5035	
LB3 460-894478/1-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 895055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	8260D	894478
460-275074-5	SB5-301	Total/NA	Solid	8260D	894478
460-275074-6	SB6-301	Total/NA	Solid	8260D	894478
MB 460-895055/9	Method Blank	Total/NA	Solid	8260D	
LCS 460-895055/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-895055/6	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 895205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-2	SB2-436	Total/NA	Solid	8260D	894478
460-275074-3	SB3-436	Total/NA	Solid	8260D	894478
460-275074-4	SB4-301	Total/NA	Solid	8260D	894478
MB 460-895205/8	Method Blank	Total/NA	Solid	8260D	
LCS 460-895205/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-895205/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 895235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 460-894478/1-A	Method Blank	Total/NA	Solid	8260D	894478
MB 460-895235/7	Method Blank	Total/NA	Solid	8260D	
LCS 460-895235/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 460-895235/20	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 894612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	3546	
460-275074-2	SB2-436	Total/NA	Solid	3546	
460-275074-3	SB3-436	Total/NA	Solid	3546	
460-275074-4	SB4-301	Total/NA	Solid	3546	
460-275074-5	SB5-301	Total/NA	Solid	3546	
460-275074-6	SB6-301	Total/NA	Solid	3546	
MB 460-894612/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-894612/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-894612/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-275096-B-2-A MS	Matrix Spike	Total/NA	Solid	3546	
460-275096-B-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

QC Association Summary

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

GC/MS Semi VOA

Analysis Batch: 894650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-3	SB3-436	Total/NA	Solid	8270E	894612
460-275074-5	SB5-301	Total/NA	Solid	8270E	894612

Analysis Batch: 894653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-6	SB6-301	Total/NA	Solid	8270E	894612

Analysis Batch: 894672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	8270E	894612
460-275074-2	SB2-436	Total/NA	Solid	8270E	894612
MB 460-894612/1-A	Method Blank	Total/NA	Solid	8270E	894612
LCS 460-894612/2-A	Lab Control Sample	Total/NA	Solid	8270E	894612
LCSD 460-894612/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	894612
460-275096-B-2-A MS	Matrix Spike	Total/NA	Solid	8270E	894612
460-275096-B-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270E	894612

Analysis Batch: 894849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-4	SB4-301	Total/NA	Solid	8270E	894612

GC Semi VOA

Analysis Batch: 894759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-2	SB2-436	Total/NA	Solid	8081B	894804
460-275074-3	SB3-436	Total/NA	Solid	8081B	894804
460-275074-4	SB4-301	Total/NA	Solid	8081B	894804
460-275074-5	SB5-301	Total/NA	Solid	8081B	894804
460-275074-6	SB6-301	Total/NA	Solid	8081B	894804
MB 460-894804/1-A	Method Blank	Total/NA	Solid	8081B	894804
LCS 460-894804/2-A	Lab Control Sample	Total/NA	Solid	8081B	894804
LCSD 460-894804/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	894804

Analysis Batch: 894763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	8081B	894803
MB 460-894803/1-A	Method Blank	Total/NA	Solid	8081B	894803
LCS 460-894803/2-A	Lab Control Sample	Total/NA	Solid	8081B	894803
LCSD 460-894803/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	894803

Prep Batch: 894801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	3546	
MB 460-894801/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-894801/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-894801/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 894802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-2	SB2-436	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 894802 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-3	SB3-436	Total/NA	Solid	3546	
460-275074-4	SB4-301	Total/NA	Solid	3546	
460-275074-5	SB5-301	Total/NA	Solid	3546	
460-275074-6	SB6-301	Total/NA	Solid	3546	
MB 460-894802/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-894802/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-894802/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-275142-F-5-D MS	Matrix Spike	Total/NA	Solid	3546	
460-275142-F-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 894803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	3546	
MB 460-894803/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-894803/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-894803/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 894804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-2	SB2-436	Total/NA	Solid	3546	
460-275074-3	SB3-436	Total/NA	Solid	3546	
460-275074-4	SB4-301	Total/NA	Solid	3546	
460-275074-5	SB5-301	Total/NA	Solid	3546	
460-275074-6	SB6-301	Total/NA	Solid	3546	
MB 460-894804/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-894804/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-894804/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 895113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-894801/1-A	Method Blank	Total/NA	Solid	8082A	894801
LCS 460-894801/2-A	Lab Control Sample	Total/NA	Solid	8082A	894801
LCSD 460-894801/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	894801

Analysis Batch: 895114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-2	SB2-436	Total/NA	Solid	8082A	894802
460-275074-3	SB3-436	Total/NA	Solid	8082A	894802
460-275074-4	SB4-301	Total/NA	Solid	8082A	894802
460-275074-5	SB5-301	Total/NA	Solid	8082A	894802
460-275074-6	SB6-301	Total/NA	Solid	8082A	894802
MB 460-894802/1-A	Method Blank	Total/NA	Solid	8082A	894802
LCS 460-894802/2-A	Lab Control Sample	Total/NA	Solid	8082A	894802
LCSD 460-894802/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	894802
460-275142-F-5-D MS	Matrix Spike	Total/NA	Solid	8082A	894802
460-275142-F-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	894802

Analysis Batch: 895254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	8082A	894801

QC Association Summary

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Metals

Prep Batch: 894428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	3050B	
460-275074-2	SB2-436	Total/NA	Solid	3050B	
460-275074-3	SB3-436	Total/NA	Solid	3050B	
460-275074-4	SB4-301	Total/NA	Solid	3050B	
460-275074-5	SB5-301	Total/NA	Solid	3050B	
460-275074-6	SB6-301	Total/NA	Solid	3050B	
MB 460-894428/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-894428/2-A	Lab Control Sample	Total/NA	Solid	3050B	
460-275007-H-1-D MS	Matrix Spike	Total/NA	Solid	3050B	
460-275007-H-1-C DU	Duplicate	Total/NA	Solid	3050B	

Prep Batch: 894618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	7471B	
460-275074-2	SB2-436	Total/NA	Solid	7471B	
460-275074-3	SB3-436	Total/NA	Solid	7471B	
MB 460-894618/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-894618/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-274345-A-83-C MS	Matrix Spike	Total/NA	Solid	7471B	
460-274345-A-83-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	
460-274345-A-83-B DU	Duplicate	Total/NA	Solid	7471B	

Prep Batch: 894625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-4	SB4-301	Total/NA	Solid	7471B	
460-275074-5	SB5-301	Total/NA	Solid	7471B	
MB 460-894625/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-894625/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	
460-275074-4 MS	SB4-301	Total/NA	Solid	7471B	
460-275074-4 DU	SB4-301	Total/NA	Solid	7471B	

Analysis Batch: 894673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	7471B	894618
460-275074-2	SB2-436	Total/NA	Solid	7471B	894618
460-275074-3	SB3-436	Total/NA	Solid	7471B	894618
460-275074-4	SB4-301	Total/NA	Solid	7471B	894625
460-275074-5	SB5-301	Total/NA	Solid	7471B	894625
MB 460-894618/10-A	Method Blank	Total/NA	Solid	7471B	894618
MB 460-894625/1-A	Method Blank	Total/NA	Solid	7471B	894625
LCSSRM 460-894618/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	894618
LCSSRM 460-894625/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	894625
460-274345-A-83-C MS	Matrix Spike	Total/NA	Solid	7471B	894618
460-274345-A-83-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471B	894618
460-275074-4 MS	SB4-301	Total/NA	Solid	7471B	894625
460-274345-A-83-B DU	Duplicate	Total/NA	Solid	7471B	894618
460-275074-4 DU	SB4-301	Total/NA	Solid	7471B	894625

Leach Batch: 894916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 894916 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-2	SB2-436	TCLP	Solid	1311	
460-275074-3	SB3-436	TCLP	Solid	1311	
460-275074-4	SB4-301	TCLP	Solid	1311	
460-275074-5	SB5-301	TCLP	Solid	1311	
460-275074-6	SB6-301	TCLP	Solid	1311	
LB 460-894916/1-B ^5	Method Blank	TCLP	Solid	1311	
LB 460-894916/1-E	Method Blank	TCLP	Solid	1311	
460-275041-B-1-E MS	Matrix Spike	TCLP	Solid	1311	
460-275074-3 MS	SB3-436	TCLP	Solid	1311	
460-275041-B-1-D DU	Duplicate	TCLP	Solid	1311	
460-275074-3 DU	SB3-436	TCLP	Solid	1311	

Prep Batch: 894980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	TCLP	Solid	3010A	894916
460-275074-2	SB2-436	TCLP	Solid	3010A	894916
460-275074-3	SB3-436	TCLP	Solid	3010A	894916
460-275074-4	SB4-301	TCLP	Solid	3010A	894916
460-275074-5	SB5-301	TCLP	Solid	3010A	894916
460-275074-6	SB6-301	TCLP	Solid	3010A	894916
LB 460-894916/1-B ^5	Method Blank	TCLP	Solid	3010A	894916
MB 460-894980/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 460-894980/2-A ^2	Lab Control Sample	Total/NA	Solid	3010A	
460-275074-3 MS	SB3-436	TCLP	Solid	3010A	894916
460-275074-3 DU	SB3-436	TCLP	Solid	3010A	894916

Prep Batch: 895012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-6	SB6-301	Total/NA	Solid	7471B	
MB 460-895012/10-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-895012/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	
460-275248-A-1-E MS	Matrix Spike	Total/NA	Solid	7471B	
460-275248-A-1-D DU	Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 895057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-6	SB6-301	Total/NA	Solid	7471B	895012
MB 460-895012/10-A	Method Blank	Total/NA	Solid	7471B	895012
LCSSRM 460-895012/11-A ^	Lab Control Sample	Total/NA	Solid	7471B	895012
460-275248-A-1-E MS	Matrix Spike	Total/NA	Solid	7471B	895012
460-275248-A-1-D DU	Duplicate	Total/NA	Solid	7471B	895012

Prep Batch: 895094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	TCLP	Solid	7470A	894916
460-275074-2	SB2-436	TCLP	Solid	7470A	894916
460-275074-3	SB3-436	TCLP	Solid	7470A	894916
460-275074-4	SB4-301	TCLP	Solid	7470A	894916
460-275074-5	SB5-301	TCLP	Solid	7470A	894916
460-275074-6	SB6-301	TCLP	Solid	7470A	894916
LB 460-894916/1-E	Method Blank	TCLP	Solid	7470A	894916

Metals (Continued)

Prep Batch: 895094 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-895094/1-A	Method Blank	Total/NA	Solid	7470A	
LCS 460-895094/28-A	Lab Control Sample	Total/NA	Solid	7470A	
460-275041-B-1-E MS	Matrix Spike	TCLP	Solid	7470A	894916
460-275041-B-1-D DU	Duplicate	TCLP	Solid	7470A	894916

Analysis Batch: 895135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	TCLP	Solid	6010D	894980
460-275074-1	SB1-436	Total/NA	Solid	6010D	894428
460-275074-2	SB2-436	TCLP	Solid	6010D	894980
460-275074-2	SB2-436	Total/NA	Solid	6010D	894428
460-275074-3	SB3-436	TCLP	Solid	6010D	894980
460-275074-3	SB3-436	Total/NA	Solid	6010D	894428
460-275074-4	SB4-301	TCLP	Solid	6010D	894980
460-275074-4	SB4-301	Total/NA	Solid	6010D	894428
460-275074-5	SB5-301	TCLP	Solid	6010D	894980
460-275074-5	SB5-301	Total/NA	Solid	6010D	894428
460-275074-6	SB6-301	TCLP	Solid	6010D	894980
460-275074-6	SB6-301	Total/NA	Solid	6010D	894428
LB 460-894916/1-B ^5	Method Blank	TCLP	Solid	6010D	894980
MB 460-894428/1-A	Method Blank	Total/NA	Solid	6010D	894428
MB 460-894980/1-A	Method Blank	Total/NA	Solid	6010D	894980
LCS 460-894980/2-A ^2	Lab Control Sample	Total/NA	Solid	6010D	894980
LCSSRM 460-894428/2-A	Lab Control Sample	Total/NA	Solid	6010D	894428
460-275007-H-1-D MS	Matrix Spike	Total/NA	Solid	6010D	894428
460-275074-3 MS	SB3-436	TCLP	Solid	6010D	894980
460-275007-H-1-C DU	Duplicate	Total/NA	Solid	6010D	894428
460-275074-3 DU	SB3-436	TCLP	Solid	6010D	894980

Analysis Batch: 895148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	TCLP	Solid	7470A	895094
460-275074-2	SB2-436	TCLP	Solid	7470A	895094
460-275074-3	SB3-436	TCLP	Solid	7470A	895094
460-275074-4	SB4-301	TCLP	Solid	7470A	895094
460-275074-5	SB5-301	TCLP	Solid	7470A	895094
460-275074-6	SB6-301	TCLP	Solid	7470A	895094
LB 460-894916/1-E	Method Blank	TCLP	Solid	7470A	895094
MB 460-895094/1-A	Method Blank	Total/NA	Solid	7470A	895094
LCS 460-895094/28-A	Lab Control Sample	Total/NA	Solid	7470A	895094
460-275041-B-1-E MS	Matrix Spike	TCLP	Solid	7470A	895094
460-275041-B-1-D DU	Duplicate	TCLP	Solid	7470A	895094

Analysis Batch: 895539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	6010D	894428
460-275074-2	SB2-436	Total/NA	Solid	6010D	894428
460-275074-3	SB3-436	Total/NA	Solid	6010D	894428
460-275074-4	SB4-301	Total/NA	Solid	6010D	894428
460-275074-5	SB5-301	Total/NA	Solid	6010D	894428
460-275074-6	SB6-301	Total/NA	Solid	6010D	894428

Metals (Continued)

Analysis Batch: 895539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-894428/1-A	Method Blank	Total/NA	Solid	6010D	894428
LCSSRM 460-894428/2-A	Lab Control Sample	Total/NA	Solid	6010D	894428
460-275007-H-1-D MS	Matrix Spike	Total/NA	Solid	6010D	894428
460-275007-H-1-C DU	Duplicate	Total/NA	Solid	6010D	894428

General Chemistry

Analysis Batch: 894426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	Moisture	
460-275074-2	SB2-436	Total/NA	Solid	Moisture	
460-275074-3	SB3-436	Total/NA	Solid	Moisture	
460-275074-4	SB4-301	Total/NA	Solid	Moisture	
460-275074-5	SB5-301	Total/NA	Solid	Moisture	
460-275074-6	SB6-301	Total/NA	Solid	Moisture	
460-275021-A-1 MS	Matrix Spike	Total/NA	Solid	Moisture	
460-275021-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
460-275021-A-6 DU	Duplicate	Total/NA	Solid	Moisture	
460-275071-D-11 DU	Duplicate	Total/NA	Solid	Moisture	
460-275071-D-15 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 894793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	7.3.4	
460-275074-2	SB2-436	Total/NA	Solid	7.3.4	
460-275074-3	SB3-436	Total/NA	Solid	7.3.4	
460-275074-4	SB4-301	Total/NA	Solid	7.3.4	
460-275074-5	SB5-301	Total/NA	Solid	7.3.4	
460-275074-6	SB6-301	Total/NA	Solid	7.3.4	
MB 460-894793/1-A	Method Blank	Total/NA	Solid	7.3.4	
LCSSRM 460-894793/3-A	Lab Control Sample	Total/NA	Solid	7.3.4	
460-274642-D-7-B MS	Matrix Spike	Total/NA	Solid	7.3.4	
460-274642-D-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7.3.4	

Prep Batch: 894794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	7.3.3	
460-275074-2	SB2-436	Total/NA	Solid	7.3.3	
460-275074-3	SB3-436	Total/NA	Solid	7.3.3	
460-275074-4	SB4-301	Total/NA	Solid	7.3.3	
460-275074-5	SB5-301	Total/NA	Solid	7.3.3	
460-275074-6	SB6-301	Total/NA	Solid	7.3.3	
MB 460-894794/1-A	Method Blank	Total/NA	Solid	7.3.3	
LCS 460-894794/2-A	Lab Control Sample	Total/NA	Solid	7.3.3	
460-274642-D-7-E DU	Duplicate	Total/NA	Solid	7.3.3	

Analysis Batch: 894795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	9034	894793
460-275074-2	SB2-436	Total/NA	Solid	9034	894793
460-275074-3	SB3-436	Total/NA	Solid	9034	894793

General Chemistry (Continued)

Analysis Batch: 894795 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-4	SB4-301	Total/NA	Solid	9034	894793
460-275074-5	SB5-301	Total/NA	Solid	9034	894793
460-275074-6	SB6-301	Total/NA	Solid	9034	894793
MB 460-894793/1-A	Method Blank	Total/NA	Solid	9034	894793
LCSSRM 460-894793/3-A	Lab Control Sample	Total/NA	Solid	9034	894793
460-274642-D-7-B MS	Matrix Spike	Total/NA	Solid	9034	894793
460-274642-D-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	9034	894793

Analysis Batch: 894796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	9014	894794
460-275074-2	SB2-436	Total/NA	Solid	9014	894794
460-275074-3	SB3-436	Total/NA	Solid	9014	894794
460-275074-4	SB4-301	Total/NA	Solid	9014	894794
460-275074-5	SB5-301	Total/NA	Solid	9014	894794
460-275074-6	SB6-301	Total/NA	Solid	9014	894794
MB 460-894794/1-A	Method Blank	Total/NA	Solid	9014	894794
LCS 460-894794/2-A	Lab Control Sample	Total/NA	Solid	9014	894794
460-274642-D-7-E DU	Duplicate	Total/NA	Solid	9014	894794

Analysis Batch: 894925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	9045D	
MB 460-894925/2	Method Blank	Total/NA	Solid	9045D	
LCSSRM 460-894925/3	Lab Control Sample	Total/NA	Solid	9045D	
460-275227-E-2 DU	Duplicate	Total/NA	Solid	9045D	

Analysis Batch: 895297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-2	SB2-436	Total/NA	Solid	9045D	
460-275074-3	SB3-436	Total/NA	Solid	9045D	
460-275074-4	SB4-301	Total/NA	Solid	9045D	
460-275074-5	SB5-301	Total/NA	Solid	9045D	
460-275074-6	SB6-301	Total/NA	Solid	9045D	
MB 460-895297/2	Method Blank	Total/NA	Solid	9045D	
LCSSRM 460-895297/3	Lab Control Sample	Total/NA	Solid	9045D	
460-275074-6 DU	SB6-301	Total/NA	Solid	9045D	

Analysis Batch: 895300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-275074-1	SB1-436	Total/NA	Solid	1030	
460-275074-2	SB2-436	Total/NA	Solid	1030	
460-275074-3	SB3-436	Total/NA	Solid	1030	
460-275074-4	SB4-301	Total/NA	Solid	1030	
460-275074-5	SB5-301	Total/NA	Solid	1030	
460-275074-6	SB6-301	Total/NA	Solid	1030	
460-274793-E-5 DU	Duplicate	Total/NA	Solid	1030	

Lab Chronicle

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB1-436
Date Collected: 02/21/23 09:26
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			894916	STD	EET EDI	02/25/23 15:00 - 02/26/23 07:00 [1]
TCLP	Prep	3010A			894980	NNW	EET EDI	02/26/23 13:17
TCLP	Analysis	6010D		5	895135	YZH	EET EDI	02/27/23 17:28
TCLP	Leach	1311			894916	STD	EET EDI	02/25/23 15:00 - 02/26/23 07:00 [1]
TCLP	Prep	7470A			895094	RBS	EET EDI	02/27/23 12:56
TCLP	Analysis	7470A		1	895148	RBS	EET EDI	02/27/23 15:30
Total/NA	Analysis	1030		1	895300	YAH	EET EDI	02/28/23 13:37
Total/NA	Prep	7.3.3			894794	HTV	EET EDI	02/24/23 10:00
Total/NA	Analysis	9014		1	894796	HTV	EET EDI	02/24/23 14:00
Total/NA	Prep	7.3.4			894793	HTV	EET EDI	02/24/23 10:00
Total/NA	Analysis	9034		1	894795	HTV	EET EDI	02/24/23 14:00
Total/NA	Analysis	9045D		1	894925	GSM	EET EDI	02/25/23 14:17
Total/NA	Analysis	Moisture		1	894426	MVA	EET EDI	02/23/23 05:34

Client Sample ID: SB1-436
Date Collected: 02/21/23 09:26
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-1
Matrix: Solid
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			894478	SAS	EET EDI	02/23/23 08:33
Total/NA	Analysis	8260D		1	895055	EMM	EET EDI	02/27/23 17:01
Total/NA	Prep	3546			894612	GXY	EET EDI	02/23/23 22:13
Total/NA	Analysis	8270E		1	894672	DXD	EET EDI	02/24/23 16:07
Total/NA	Prep	3546			894803	ARA	EET EDI	02/24/23 16:57
Total/NA	Analysis	8081B		1	894763	SAK	EET EDI	02/27/23 14:56
Total/NA	Prep	3546			894801	ARA	EET EDI	02/24/23 16:49
Total/NA	Analysis	8082A		1	895254	JHP	EET EDI	02/28/23 13:26
Total/NA	Prep	3050B			894428	FBT	EET EDI	02/23/23 05:48
Total/NA	Analysis	6010D		2	895135	YZH	EET EDI	02/27/23 23:39
Total/NA	Prep	3050B			894428	FBT	EET EDI	02/23/23 05:48
Total/NA	Analysis	6010D		2	895539	CDC	EET EDI	03/01/23 20:17
Total/NA	Prep	7471B			894618	TJS	EET EDI	02/24/23 00:20
Total/NA	Analysis	7471B		1	894673	TJS	EET EDI	02/24/23 04:59

Client Sample ID: SB2-436
Date Collected: 02/21/23 10:50
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			894916	STD	EET EDI	02/25/23 15:00 - 02/26/23 07:00 [1]
TCLP	Prep	3010A			894980	NNW	EET EDI	02/26/23 13:17
TCLP	Analysis	6010D		5	895135	YZH	EET EDI	02/27/23 17:24
TCLP	Leach	1311			894916	STD	EET EDI	02/25/23 15:00 - 02/26/23 07:00 [1]
TCLP	Prep	7470A			895094	RBS	EET EDI	02/27/23 12:56
TCLP	Analysis	7470A		1	895148	RBS	EET EDI	02/27/23 15:32

Lab Chronicle

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB2-436
Date Collected: 02/21/23 10:50
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	1030		1	895300	YAH	EET EDI	02/28/23 13:37
Total/NA	Prep	7.3.3			894794	HTV	EET EDI	02/24/23 10:00
Total/NA	Analysis	9014		1	894796	HTV	EET EDI	02/24/23 14:00
Total/NA	Prep	7.3.4			894793	HTV	EET EDI	02/24/23 10:00
Total/NA	Analysis	9034		1	894795	HTV	EET EDI	02/24/23 14:00
Total/NA	Analysis	9045D		1	895297	GSM	EET EDI	02/28/23 12:15
Total/NA	Analysis	Moisture		1	894426	MVA	EET EDI	02/23/23 05:34

Client Sample ID: SB2-436
Date Collected: 02/21/23 10:50
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-2
Matrix: Solid
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			894478	SAS	EET EDI	02/23/23 08:35
Total/NA	Analysis	8260D		1	895205	AAT	EET EDI	02/28/23 09:52
Total/NA	Prep	3546			894612	GXY	EET EDI	02/23/23 22:13
Total/NA	Analysis	8270E		1	894672	DXD	EET EDI	02/24/23 16:24
Total/NA	Prep	3546			894804	ARA	EET EDI	02/24/23 16:58
Total/NA	Analysis	8081B		1	894759	SAK	EET EDI	02/27/23 10:33
Total/NA	Prep	3546			894802	ARA	EET EDI	02/24/23 16:53
Total/NA	Analysis	8082A		1	895114	JHP	EET EDI	02/27/23 20:32
Total/NA	Prep	3050B			894428	FBT	EET EDI	02/23/23 05:48
Total/NA	Analysis	6010D		2	895135	YZH	EET EDI	02/27/23 23:43
Total/NA	Prep	3050B			894428	FBT	EET EDI	02/23/23 05:48
Total/NA	Analysis	6010D		2	895539	CDC	EET EDI	03/01/23 20:21
Total/NA	Prep	7471B			894618	TJS	EET EDI	02/24/23 00:20
Total/NA	Analysis	7471B		1	894673	TJS	EET EDI	02/24/23 05:00

Client Sample ID: SB3-436
Date Collected: 02/21/23 11:30
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			894916	STD	EET EDI	02/25/23 15:00 - 02/26/23 07:00 [1]
TCLP	Prep	3010A			894980	NNW	EET EDI	02/26/23 13:17
TCLP	Analysis	6010D		5	895135	YZH	EET EDI	02/27/23 16:25
TCLP	Leach	1311			894916	STD	EET EDI	02/25/23 15:00 - 02/26/23 07:00 [1]
TCLP	Prep	7470A			895094	RBS	EET EDI	02/27/23 12:56
TCLP	Analysis	7470A		1	895148	RBS	EET EDI	02/27/23 15:33
Total/NA	Analysis	1030		1	895300	YAH	EET EDI	02/28/23 13:37
Total/NA	Prep	7.3.3			894794	HTV	EET EDI	02/24/23 10:00
Total/NA	Analysis	9014		1	894796	HTV	EET EDI	02/24/23 14:00
Total/NA	Prep	7.3.4			894793	HTV	EET EDI	02/24/23 10:00
Total/NA	Analysis	9034		1	894795	HTV	EET EDI	02/24/23 14:00
Total/NA	Analysis	9045D		1	895297	GSM	EET EDI	02/28/23 12:16

Lab Chronicle

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB3-436
Date Collected: 02/21/23 11:30
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	894426	MVA	EET EDI	02/23/23 05:34

Client Sample ID: SB3-436
Date Collected: 02/21/23 11:30
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-3
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			894478	SAS	EET EDI	02/23/23 08:35
Total/NA	Analysis	8260D		1	895205	AAT	EET EDI	02/28/23 08:45
Total/NA	Prep	3546			894612	GXY	EET EDI	02/23/23 22:13
Total/NA	Analysis	8270E		1	894650	DXD	EET EDI	02/24/23 14:54
Total/NA	Prep	3546			894804	ARA	EET EDI	02/24/23 16:58
Total/NA	Analysis	8081B		1	894759	SAK	EET EDI	02/27/23 10:45
Total/NA	Prep	3546			894802	ARA	EET EDI	02/24/23 16:53
Total/NA	Analysis	8082A		1	895114	JHP	EET EDI	02/27/23 20:48
Total/NA	Prep	3050B			894428	FBT	EET EDI	02/23/23 05:48
Total/NA	Analysis	6010D		2	895135	YZH	EET EDI	02/27/23 23:47
Total/NA	Prep	3050B			894428	FBT	EET EDI	02/23/23 05:48
Total/NA	Analysis	6010D		2	895539	CDC	EET EDI	03/01/23 20:25
Total/NA	Prep	7471B			894618	TJS	EET EDI	02/24/23 00:20
Total/NA	Analysis	7471B		1	894673	TJS	EET EDI	02/24/23 05:02

Client Sample ID: SB4-301
Date Collected: 02/21/23 13:07
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			894916	STD	EET EDI	02/25/23 15:00 - 02/26/23 07:00 [1]
TCLP	Prep	3010A			894980	NNW	EET EDI	02/26/23 13:17
TCLP	Analysis	6010D		5	895135	YZH	EET EDI	02/27/23 17:16
TCLP	Leach	1311			894916	STD	EET EDI	02/25/23 15:00 - 02/26/23 07:00 [1]
TCLP	Prep	7470A			895094	RBS	EET EDI	02/27/23 12:56
TCLP	Analysis	7470A		1	895148	RBS	EET EDI	02/27/23 15:35
Total/NA	Analysis	1030		1	895300	YAH	EET EDI	02/28/23 13:37
Total/NA	Prep	7.3.3			894794	HTV	EET EDI	02/24/23 10:00
Total/NA	Analysis	9014		1	894796	HTV	EET EDI	02/24/23 14:00
Total/NA	Prep	7.3.4			894793	HTV	EET EDI	02/24/23 10:00
Total/NA	Analysis	9034		1	894795	HTV	EET EDI	02/24/23 14:00
Total/NA	Analysis	9045D		1	895297	GSM	EET EDI	02/28/23 12:17
Total/NA	Analysis	Moisture		1	894426	MVA	EET EDI	02/23/23 05:34

Lab Chronicle

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB4-301
Date Collected: 02/21/23 13:07
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-4
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			894478	SAS	EET EDI	02/23/23 08:36
Total/NA	Analysis	8260D		1	895205	AAT	EET EDI	02/28/23 09:07
Total/NA	Prep	3546			894612	GXY	EET EDI	02/23/23 22:13
Total/NA	Analysis	8270E		1	894849	YAH	EET EDI	02/25/23 09:35
Total/NA	Prep	3546			894804	ARA	EET EDI	02/24/23 16:58
Total/NA	Analysis	8081B		1	894759	SAK	EET EDI	02/27/23 10:58
Total/NA	Prep	3546			894802	ARA	EET EDI	02/24/23 16:53
Total/NA	Analysis	8082A		1	895114	JHP	EET EDI	02/27/23 21:05
Total/NA	Prep	3050B			894428	FBT	EET EDI	02/23/23 05:48
Total/NA	Analysis	6010D		2	895135	YZH	EET EDI	02/27/23 23:51
Total/NA	Prep	3050B			894428	FBT	EET EDI	02/23/23 05:48
Total/NA	Analysis	6010D		2	895539	CDC	EET EDI	03/01/23 20:28
Total/NA	Prep	7471B			894625	TJS	EET EDI	02/24/23 00:48
Total/NA	Analysis	7471B		1	894673	TJS	EET EDI	02/24/23 05:07

Client Sample ID: SB5-301
Date Collected: 02/21/23 13:45
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			894916	STD	EET EDI	02/25/23 15:00 - 02/26/23 07:00 [1]
TCLP	Prep	3010A			894980	NNW	EET EDI	02/26/23 13:17
TCLP	Analysis	6010D		5	895135	YZH	EET EDI	02/27/23 17:36
TCLP	Leach	1311			894916	STD	EET EDI	02/25/23 15:00 - 02/26/23 07:00 [1]
TCLP	Prep	7470A			895094	RBS	EET EDI	02/27/23 12:56
TCLP	Analysis	7470A		1	895148	RBS	EET EDI	02/27/23 15:37
Total/NA	Analysis	1030		1	895300	YAH	EET EDI	02/28/23 13:37
Total/NA	Prep	7.3.3			894794	HTV	EET EDI	02/24/23 10:00
Total/NA	Analysis	9014		1	894796	HTV	EET EDI	02/24/23 14:00
Total/NA	Prep	7.3.4			894793	HTV	EET EDI	02/24/23 10:00
Total/NA	Analysis	9034		1	894795	HTV	EET EDI	02/24/23 14:00
Total/NA	Analysis	9045D		1	895297	GSM	EET EDI	02/28/23 12:18
Total/NA	Analysis	Moisture		1	894426	MVA	EET EDI	02/23/23 05:34

Client Sample ID: SB5-301
Date Collected: 02/21/23 13:45
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-5
Matrix: Solid
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			894478	SAS	EET EDI	02/23/23 08:37
Total/NA	Analysis	8260D		1	895055	EMM	EET EDI	02/27/23 18:30
Total/NA	Prep	3546			894612	GXY	EET EDI	02/23/23 22:13
Total/NA	Analysis	8270E		1	894650	DXD	EET EDI	02/24/23 15:40
Total/NA	Prep	3546			894804	ARA	EET EDI	02/24/23 16:58
Total/NA	Analysis	8081B		1	894759	SAK	EET EDI	02/27/23 11:10

Lab Chronicle

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB5-301
Date Collected: 02/21/23 13:45
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-5
Matrix: Solid
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			894802	ARA	EET EDI	02/24/23 16:53
Total/NA	Analysis	8082A		1	895114	JHP	EET EDI	02/27/23 21:22
Total/NA	Prep	3050B			894428	FBT	EET EDI	02/23/23 05:48
Total/NA	Analysis	6010D		2	895135	YZH	EET EDI	02/27/23 23:54
Total/NA	Prep	3050B			894428	FBT	EET EDI	02/23/23 05:48
Total/NA	Analysis	6010D		2	895539	CDC	EET EDI	03/01/23 20:40
Total/NA	Prep	7471B			894625	TJS	EET EDI	02/24/23 00:48
Total/NA	Analysis	7471B		1	894673	TJS	EET EDI	02/24/23 05:19

Client Sample ID: SB6-301
Date Collected: 02/21/23 14:10
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			894916	STD	EET EDI	02/25/23 15:00 - 02/26/23 07:00 [1]
TCLP	Prep	3010A			894980	NNW	EET EDI	02/26/23 13:17
TCLP	Analysis	6010D		5	895135	YZH	EET EDI	02/27/23 17:20
TCLP	Leach	1311			894916	STD	EET EDI	02/25/23 15:00 - 02/26/23 07:00 [1]
TCLP	Prep	7470A			895094	RBS	EET EDI	02/27/23 12:56
TCLP	Analysis	7470A		1	895148	RBS	EET EDI	02/27/23 15:38
Total/NA	Analysis	1030		1	895300	YAH	EET EDI	02/28/23 13:37
Total/NA	Prep	7.3.3			894794	HTV	EET EDI	02/24/23 10:00
Total/NA	Analysis	9014		1	894796	HTV	EET EDI	02/24/23 14:00
Total/NA	Prep	7.3.4			894793	HTV	EET EDI	02/24/23 10:00
Total/NA	Analysis	9034		1	894795	HTV	EET EDI	02/24/23 14:00
Total/NA	Analysis	9045D		1	895297	GSM	EET EDI	02/28/23 12:20
Total/NA	Analysis	Moisture		1	894426	MVA	EET EDI	02/23/23 05:34

Client Sample ID: SB6-301
Date Collected: 02/21/23 14:10
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-6
Matrix: Solid
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			894478	SAS	EET EDI	02/23/23 08:37
Total/NA	Analysis	8260D		1	895055	EMM	EET EDI	02/27/23 18:52
Total/NA	Prep	3546			894612	GXY	EET EDI	02/23/23 22:13
Total/NA	Analysis	8270E		1	894653	DXD	EET EDI	02/24/23 16:51
Total/NA	Prep	3546			894804	ARA	EET EDI	02/24/23 16:58
Total/NA	Analysis	8081B		1	894759	SAK	EET EDI	02/27/23 11:22
Total/NA	Prep	3546			894802	ARA	EET EDI	02/24/23 16:53
Total/NA	Analysis	8082A		1	895114	JHP	EET EDI	02/27/23 21:38
Total/NA	Prep	3050B			894428	FBT	EET EDI	02/23/23 05:48
Total/NA	Analysis	6010D		2	895135	YZH	EET EDI	02/27/23 23:58
Total/NA	Prep	3050B			894428	FBT	EET EDI	02/23/23 05:48
Total/NA	Analysis	6010D		2	895539	CDC	EET EDI	03/01/23 20:43

Lab Chronicle

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Client Sample ID: SB6-301

Date Collected: 02/21/23 14:10
Date Received: 02/22/23 16:40

Lab Sample ID: 460-275074-6

Matrix: Solid
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			895012	TJS	EET EDI	02/27/23 00:14
Total/NA	Analysis	7471B		1	895057	TJS	EET EDI	02/27/23 04:45

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Laboratory: Eurofins Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	12028	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1030		Solid	Burn Rate
6010D	3010A	Solid	Arsenic
6010D	3010A	Solid	Barium
6010D	3010A	Solid	Cadmium
6010D	3010A	Solid	Chromium
6010D	3010A	Solid	Lead
6010D	3010A	Solid	Selenium
6010D	3010A	Solid	Silver
6010D	3050B	Solid	Aluminum
6010D	3050B	Solid	Antimony
6010D	3050B	Solid	Arsenic
6010D	3050B	Solid	Barium
6010D	3050B	Solid	Beryllium
6010D	3050B	Solid	Cadmium
6010D	3050B	Solid	Calcium
6010D	3050B	Solid	Chromium
6010D	3050B	Solid	Cobalt
6010D	3050B	Solid	Copper
6010D	3050B	Solid	Iron
6010D	3050B	Solid	Lead
6010D	3050B	Solid	Magnesium
6010D	3050B	Solid	Manganese
6010D	3050B	Solid	Nickel
6010D	3050B	Solid	Potassium
6010D	3050B	Solid	Selenium
6010D	3050B	Solid	Silver
6010D	3050B	Solid	Sodium
6010D	3050B	Solid	Thallium
6010D	3050B	Solid	Vanadium
6010D	3050B	Solid	Zinc
7470A	7470A	Solid	Mercury
7471B	7471B	Solid	Mercury
8081B	3546	Solid	4,4'-DDD
8081B	3546	Solid	4,4'-DDE
8081B	3546	Solid	4,4'-DDT
8081B	3546	Solid	Aldrin
8081B	3546	Solid	alpha-BHC
8081B	3546	Solid	beta-BHC
8081B	3546	Solid	Chlordane
8081B	3546	Solid	cis-Chlordane
8081B	3546	Solid	delta-BHC
8081B	3546	Solid	Dieldrin
8081B	3546	Solid	Endosulfan I
8081B	3546	Solid	Endosulfan II
8081B	3546	Solid	Endosulfan sulfate

Laboratory: Eurofins Edison (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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Analysis Method	Prep Method	Matrix	Analyte
8081B	3546	Solid	Endrin
8081B	3546	Solid	Endrin aldehyde
8081B	3546	Solid	Endrin ketone
8081B	3546	Solid	gamma-BHC (Lindane)
8081B	3546	Solid	Heptachlor
8081B	3546	Solid	Heptachlor epoxide
8081B	3546	Solid	Methoxychlor
8081B	3546	Solid	Toxaphene
8081B	3546	Solid	trans-Chlordane
8082A	3546	Solid	Aroclor 1016
8082A	3546	Solid	Aroclor 1221
8082A	3546	Solid	Aroclor 1232
8082A	3546	Solid	Aroclor 1242
8082A	3546	Solid	Aroclor 1248
8082A	3546	Solid	Aroclor 1254
8082A	3546	Solid	Aroclor 1260
8082A	3546	Solid	Aroclor 1262
8082A	3546	Solid	Aroclor 1268
8260D	5035	Solid	1,1,1-Trichloroethane
8260D	5035	Solid	1,1,2,2-Tetrachloroethane
8260D	5035	Solid	1,1,2-Trichloroethane
8260D	5035	Solid	1,1-Dichloroethane
8260D	5035	Solid	1,1-Dichloroethene
8260D	5035	Solid	1,2,3-Trichlorobenzene
8260D	5035	Solid	1,2,4-Trichlorobenzene
8260D	5035	Solid	1,2-Dibromo-3-Chloropropane
8260D	5035	Solid	1,2-Dibromoethane
8260D	5035	Solid	1,2-Dichlorobenzene
8260D	5035	Solid	1,2-Dichloroethane
8260D	5035	Solid	1,2-Dichloropropane
8260D	5035	Solid	1,3-Dichlorobenzene
8260D	5035	Solid	1,4-Dichlorobenzene
8260D	5035	Solid	1,4-Dioxane
8260D	5035	Solid	2-Butanone
8260D	5035	Solid	2-Hexanone
8260D	5035	Solid	4-Methyl-2-pentanone
8260D	5035	Solid	Acetone
8260D	5035	Solid	Benzene
8260D	5035	Solid	Bromochloromethane
8260D	5035	Solid	Bromodichloromethane
8260D	5035	Solid	Bromoform
8260D	5035	Solid	Bromomethane
8260D	5035	Solid	Carbon disulfide
8260D	5035	Solid	Carbon tetrachloride
8260D	5035	Solid	Chlorobenzene
8260D	5035	Solid	Chloroethane
8260D	5035	Solid	Chloroform

Laboratory: Eurofins Edison (Continued)

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Authority	Program	Identification Number	Expiration Date

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Analysis Method	Prep Method	Matrix	Analyte
8260D	5035	Solid	Chloromethane
8260D	5035	Solid	cis-1,2-Dichloroethene
8260D	5035	Solid	cis-1,3-Dichloropropene
8260D	5035	Solid	Cyclohexane
8260D	5035	Solid	Dibromochloromethane
8260D	5035	Solid	Dichlorodifluoromethane
8260D	5035	Solid	Ethylbenzene
8260D	5035	Solid	Freon TF
8260D	5035	Solid	Isopropylbenzene
8260D	5035	Solid	m&p-Xylene
8260D	5035	Solid	Methyl acetate
8260D	5035	Solid	Methylcyclohexane
8260D	5035	Solid	Methylene Chloride
8260D	5035	Solid	MTBE
8260D	5035	Solid	o-Xylene
8260D	5035	Solid	Styrene
8260D	5035	Solid	Tetrachloroethene
8260D	5035	Solid	Toluene
8260D	5035	Solid	trans-1,2-Dichloroethene
8260D	5035	Solid	trans-1,3-Dichloropropene
8260D	5035	Solid	Trichloroethene
8260D	5035	Solid	Trichlorofluoromethane
8260D	5035	Solid	Vinyl chloride
8270E	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270E	3546	Solid	2,2'-oxybis[1-chloropropane]
8270E	3546	Solid	2,3,4,6-Tetrachlorophenol
8270E	3546	Solid	2,4,5-Trichlorophenol
8270E	3546	Solid	2,4,6-Trichlorophenol
8270E	3546	Solid	2,4-Dichlorophenol
8270E	3546	Solid	2,4-Dimethylphenol
8270E	3546	Solid	2,4-Dinitrophenol
8270E	3546	Solid	2,4-Dinitrotoluene
8270E	3546	Solid	2,6-Dinitrotoluene
8270E	3546	Solid	2-Chloronaphthalene
8270E	3546	Solid	2-Chlorophenol
8270E	3546	Solid	2-Methylnaphthalene
8270E	3546	Solid	2-Methylphenol
8270E	3546	Solid	2-Nitroaniline
8270E	3546	Solid	2-Nitrophenol
8270E	3546	Solid	3,3'-Dichlorobenzidine
8270E	3546	Solid	3-Nitroaniline
8270E	3546	Solid	4,6-Dinitro-2-methylphenol
8270E	3546	Solid	4-Bromophenyl phenyl ether
8270E	3546	Solid	4-Chloro-3-methylphenol
8270E	3546	Solid	4-Chloroaniline
8270E	3546	Solid	4-Chlorophenyl phenyl ether
8270E	3546	Solid	4-Methylphenol

Laboratory: Eurofins Edison (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

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Analysis Method	Prep Method	Matrix	Analyte
8270E	3546	Solid	4-Nitroaniline
8270E	3546	Solid	4-Nitrophenol
8270E	3546	Solid	Acenaphthene
8270E	3546	Solid	Acenaphthylene
8270E	3546	Solid	Acetophenone
8270E	3546	Solid	Anthracene
8270E	3546	Solid	Atrazine
8270E	3546	Solid	Benzaldehyde
8270E	3546	Solid	Benzo[a]anthracene
8270E	3546	Solid	Benzo[a]pyrene
8270E	3546	Solid	Benzo[b]fluoranthene
8270E	3546	Solid	Benzo[g,h,i]perylene
8270E	3546	Solid	Benzo[k]fluoranthene
8270E	3546	Solid	Bis(2-chloroethoxy)methane
8270E	3546	Solid	Bis(2-chloroethyl)ether
8270E	3546	Solid	Bis(2-ethylhexyl) phthalate
8270E	3546	Solid	Butyl benzyl phthalate
8270E	3546	Solid	Caprolactam
8270E	3546	Solid	Carbazole
8270E	3546	Solid	Chrysene
8270E	3546	Solid	Dibenz(a,h)anthracene
8270E	3546	Solid	Dibenzofuran
8270E	3546	Solid	Diethyl phthalate
8270E	3546	Solid	Dimethyl phthalate
8270E	3546	Solid	Di-n-butyl phthalate
8270E	3546	Solid	Di-n-octyl phthalate
8270E	3546	Solid	Diphenyl
8270E	3546	Solid	Fluoranthene
8270E	3546	Solid	Fluorene
8270E	3546	Solid	Hexachlorobenzene
8270E	3546	Solid	Hexachlorobutadiene
8270E	3546	Solid	Hexachlorocyclopentadiene
8270E	3546	Solid	Hexachloroethane
8270E	3546	Solid	Indeno[1,2,3-cd]pyrene
8270E	3546	Solid	Isophorone
8270E	3546	Solid	Naphthalene
8270E	3546	Solid	Nitrobenzene
8270E	3546	Solid	N-Nitrosodimethylamine
8270E	3546	Solid	N-Nitrosodi-n-propylamine
8270E	3546	Solid	N-Nitrosodiphenylamine
8270E	3546	Solid	Pentachlorophenol
8270E	3546	Solid	Phenanthrene
8270E	3546	Solid	Phenol
8270E	3546	Solid	Pyrene
9014	7.3.3	Solid	Cyanide, Reactive
9034	7.3.4	Solid	Sulfide, Reactive
9045D		Solid	pH

Laboratory: Eurofins Edison (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9045D		Solid	Temperature
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET EDI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET EDI
8081B	Organochlorine Pesticides (GC)	SW846	EET EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET EDI
6010D	Metals (ICP)	SW846	EET EDI
7470A	Mercury (CVAA)	SW846	EET EDI
7471B	Mercury (CVAA)	SW846	EET EDI
1030	Ignitability, Solids	SW846	EET EDI
9014	Cyanide, Reactive	SW846	EET EDI
9034	Sulfide, Reactive	SW846	EET EDI
9045D	pH	SW846	EET EDI
Moisture	Percent Moisture	EPA	EET EDI
1311	TCLP Extraction	SW846	EET EDI
3010A	Preparation, Total Metals	SW846	EET EDI
3050B	Preparation, Metals	SW846	EET EDI
3546	Microwave Extraction	SW846	EET EDI
5035	Closed System Purge and Trap	SW846	EET EDI
7.3.3	Cyanide, Reactive	SW846	EET EDI
7.3.4	Sulfide, Reactive	SW846	EET EDI
7470A	Preparation, Mercury	SW846	EET EDI
7471B	Preparation, Mercury	SW846	EET EDI

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 EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: HK Engineering & Geology DPC
Project/Site: HK2630

Job ID: 460-275074-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-275074-1	SB1-436	Solid	02/21/23 09:26	02/22/23 16:40
460-275074-2	SB2-436	Solid	02/21/23 10:50	02/22/23 16:40
460-275074-3	SB3-436	Solid	02/21/23 11:30	02/22/23 16:40
460-275074-4	SB4-301	Solid	02/21/23 13:07	02/22/23 16:40
460-275074-5	SB5-301	Solid	02/21/23 13:45	02/22/23 16:40
460-275074-6	SB6-301	Solid	02/21/23 14:10	02/22/23 16:40

Eurofins Edison
777 New Durham Road

Edison, NJ 08817-2859
phone 732.549.3900 fax 732.549.3679

Chain of Custody Record

eurofins | Environment Testing America

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

Eurofins Environment Testing America

	Project Manager: Chris Hirchmann		COC No:
Client Contact	Email: chirschmann@hillmannconsulting.com	**Site Contact:**	**Date: 2/22/2023**	____1___ of __1____ COCs
HK Engineering and Geology D.P.C.	Tel/Fax:	**Lab Contact:**	**Carrier:**	TALS Project #:
1600 US 22 East	**Analysis Turnaround Time**			Sampler: D. Aponte
Union, NJ 07083	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
908-688-7800	TAT if different from Below _____			Walk-in Client:
FAX	☐ 2 weeks			Lab Sampling:
Project Name: HK2630	X 1 week			
Site:	☐ 2 days			Job / SDG No.: 275074
P O # HK2630	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TAL/TCL + 30	TCLP Metals	RCRA Characteristics	Sample Specific Notes:
SB1 - 436	2/21/2023	9:26	C	S	8			X	X	X	1
SB2 - 436	2/21/2023	10:50	C	S	8			X	X	X	2
SB3 - 436	2/21/2023	11:30	C	S	8			X	X	X	3
SB4 - 301	2/21/2023	13:07	C	S	8			X	X	X	4
SB5 - 301	2/21/2023	13:45	C	S	8			X	X	X	5
SB6 - 301	2/21/2023	14:10	C	S	8			X	X	X	6

460-275074 Chain of Custody

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:

5 Day TAT Hard Copy and Verbal

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

Relinquished by: Sarah Gets	Company: HK	Date/Time: 2/22/23 14:45	Received by: William Clark	Company: EET	Date/Time: 2/22/23 1445
Relinquished by: William Clark	Company: EET	Date/Time: 2/22/23 1640	Received by: Josh [illegible]	Company: ETA	Date/Time: 2/22/23 1640
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

ENCUNITA 4.1 W.6

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 275074

Number of Coolers: 1 IR Gun # 7

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	4.1 °C	4.1 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

**Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: WC Date: 2/22/23

Login Sample Receipt Checklist

Client: HK Engineering & Geology DPC

Job Number: 460-275074-1

Login Number: 275074
List Number: 1
Creator: DiGuardia, Joseph L

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
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.	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	