HK ENGINEERING & GEOLOGY, D.P.C.
A Member of the Hillmann Family of Companies

August 25, 2021

Mr. Dylan J. Salmons
Pennrose, LLC
1301 Avenues of the Americas
7th Floor
New York, NY 10019

Re: Limited Phase II Site Investigation
Timber Shore
78 Bridge Street
Tonawanda, NY
HK Project No. HK-2550-1

Dear Mr. Salmons:

HK Engineering & Geology, D.P.C. (HK) conducted a Limited Phase II Soil Investigation at the property located at 78 Bridge Street, Tonawanda, New York (the subject property). HK previously prepared a Phase I Environmental Site Assessment (ESA) for the property dated June 1, 2020. Preliminary findings from the Phase I have identified several environmental areas of concern of concern given its current and historical use. These uses include historical fire department training, adjacent historical properties, the potential for historic fill, and various debris onsite (i.e. drums and storage tanks). HK's Limited Phase II Soil Investigation was designed to investigate soil, groundwater, and soil vapor to determine if subsurface impacts are present from the environmental areas of concern described above.

FIELD ACTIVITIES (August 9, 2021)

Prior to drilling activities, a walkthrough was completed with the site contact. HK was told that the storage tanks and drums located onsite were used for fire training purposes and unrelated to oil/fuel use. Following the walkthrough, a geophysical survey was performed at proposed boring areas to clear for safe drilling. The geophysical survey used ground penetrating radar (GPR), line tracing and magnetometer equipment to identify any utilities or buried anomalies. No anomalies of note were identified during boring clearance.

Nine borings (SB1 through SB9) were advanced onsite with direct push machinery in representative locations and areas of concern to characterize the surface and subsurface soil. The boring locations are shown on Figure 1. Boring depths were terminated between 5-15 feet below ground surface (bgs). PID readings recorded during boring investigation registered as 0.0 parts per million (ppm) with the exception of SB7 with a slight elevated level detection of 1.9 ppm at 3.5 feet bgs. Groundwater was encountered in all borings except SB9. Groundwater depths ranged from 4-5.5 feet bgs. To facilitate groundwater sample collection, temporary monitoring well points (TWPs) were installed in borings SB1 (TWP1), SB3 (TWP3), and SB5 (TWP5). Soil boring logs are included as Attachment A.

Soil and groundwater samples were collected from each boring for laboratory analysis of the Target Analyte List/Target Compound List which includes: volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), TAL metals, pesticides and polychlorinated biphenyls (PCBs). Dissolved metals were analyzed in groundwater samples. Two soil samples nearest the fire tower and all groundwater samples were collected for Per- and polyfluoroalkyl substances (PFAS) analysis.

Three soil vapor (SV) samples were also collected adjacent to borings SB2 (SV2), SB4 (SV4), and SB6 (SV6). To collect a sample with minimal moisture interference probe installation depths were 2 feet above the water table. Samples were collected in laboratory cleaned air canisters for a one-hour duration. Air samples were transported to a New York certified laboratory under chain of custody protocol and analyzed for VOCs by EPA method TO-15.

SUMMARY OF RESULTS

Soil laboratory analytical results were compared to the NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted-Residential Use Soil Cleanup Objectives (RRUSCOs). (Note: NYS does not have current standards for PFAS compounds). A summary table of the soil testing results are included in Table 1 with the full laboratory data package included as Attachment B.

- Several SVOC compounds were detected in exceedance of the UUSCO and RRUSCO in numerous samples.
- Nickel was detected in exceedance of the RRUSCO in one sample, lead was also detected above the UUSCO but below the RRUSCO in several samples.
- Two pesticide compounds were detected above the UUSCO but below the RRUSCO in several samples.
- Various PFAS compounds were detected in both soil samples collected.
- All other remaining compounds were either not detected or detected below the applicable UUSCOs.

Groundwater laboratory results were compared to the NYSDEC Ambient Water Quality Standards (AWQS). (Note: PFAS compounds were compared to the NYSDOH Drinking Water MCL). A table of the detected groundwater results are included in Table 2 with the full laboratory data package included as Attachment B.

- Benzo(a)pyrene was detected in exceedance of the AWQS in one sample, TWP3.
- Several metals were detected above the AWQS in all total metal unfiltered samples. Filtered groundwater samples showed dissolved iron, manganese and sodium in exceedance of the AWQS.
- Several PFAS compounds were detected in all three groundwater samples. All three samples showed exceedances of the NYS Drinking Water MCL for Perfluorooctanoic acid and Perfluorooctanesulfonic acid.
- All other remaining compounds were either not detected or detected below the applicable AWQS.

Soil vapor results are included in Table 3 with the full laboratory data package included as Attachment B. (Note: NYS does not have current standards for soil vapor compounds).

- Soil vapor results showed several detections of VOC compounds.

CONCLUSIONS/RECOMMENDATIONS

Based on the findings of the Limited Phase II Investigation, the following conclusions are made:

- Soil observed in the borings consisted primarily of native sand and clay. The SVOC exceedances observed in the soil are suspected to be a result of historic site use. During redevelopment activities, all excavated soil transported off-site for disposal should be disposed of at an appropriately certified facility. Any soil remaining onsite in exceedance of the NYSDEC Restricted-Residential Use Soil Cleanup Objectives should be capped by either the building foundation, exterior hardscaping or two feet of clean fill in yard/vegetation areas.

- PFAS compounds were detected both in soil and in groundwater. These compounds are constituents of fire-fighting foam and, considering the history of the site for fire service training, the detected compounds may have originated from historical site uses. PFAS compounds are an emerging contaminant subject to increasing regulatory scrutiny on both state and federal levels. The State of New York amended its regulations in 2020 to add certain PFAS compounds to its list of regulated hazards substances, and publish Maximum Contaminant Levels for PFAS in drinking water. The USEPA has proposed new regulations to increase drinking water testing requirements.

We thank you for the opportunity to provide you with these services. Please feel free to contact us with any questions.

Sincerely,

HK Engineering & Geology, D.P.C.

Ryan K. Powell, P.G.
Environmental Scientist

Chris Hirschmann, CHMM
Director, Environmental Services

N

BRIDGE ST

SB9

SB8

SB5/
TWP5

SV6

SB6

SB7

SB3/
TWP3

SB4

SV4

SB1/
TWP1

SV2

SB2

LITTLE RIVER

DETROIT ST

TAYLOR DR

0 30 60 120
Feet

Legend

- Soil Sample
- Soil Vapor Sample
- Groundwater Sample
- Approximate Property Boundary
- Approximate Niagra County Parcel

Notes:
Approximate property boundary obtained from the Niagra County online parcel viewer, last updated 2020.
Aerial imagery basemap obtained from GoogleEarth Pro, dated 9/22/2018.
Figure created by JLD Mapping Services LLC.

HK ENGINEERING & GEOLOGY, D.P.C.
A Member of the Hillmann Family of Companies
1600 Route 22 East, Suite #107
Union, NJ 07083

8/12/2021

August 9, 2021 Sample Location Map

78 Bridge Street
Parcel IDs: 184.08-1-8 & 184.08-1-9
North Tonawanda, Niagra County, NY

SIZE		DWG NO.	REV
11x17		Figure XX	1

SCALE:	PROJECT No.:	SHEET
1 in = 60 ft	HK-2550-1	1 OF 1

Table 1 - Soil Results - VOCs, PFAS
78 Bridge Street
Tonawanda, New York

HK Engineering & Geology, D.P.C.
Project #: HK2550-1
Sample Date: 8/9/2021

Target Compounds	NYSDEC Unrestricted Use SCO	NYSDEC Restricted Residential SCO	S1A Sample Depth: 0-2'		S1B Sample Depth: 2-4'		S2B Sample Depth: 2-4'		S3A Sample Depth: 0-2'		S3B Sample Depth: 2.5-4.5'		S4B Sample Depth: 3-5'		S5B Sample Depth: 3-5'		S6B Sample Depth: 3-5'		S7B Sample Depth: 3-5'		S8A Sample Depth: 0-2'	
Volatiles (mg/Kg)			**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**
1,1,1-Trichloroethane	**0.68**	**100**	ND (0.00049)		ND (0.00055)		ND (0.00058)		ND (0.00052)		ND (0.00051)		ND (0.00055)		ND (0.00060)		ND (0.00075)		ND (0.00061)		ND (0.00061)	
1,1,2,2-Tetrachloroethane	**NS**	**NS**	ND (0.00061)		ND (0.00068)		ND (0.00072)		ND (0.00065)		ND (0.00063)		ND (0.00068)		ND (0.00074)		ND (0.00093)		ND (0.00075)		ND (0.00076)	
1,1,2-Trichloroethane	**NS**	**NS**	ND (0.00057)		ND (0.00063)		ND (0.00067)		ND (0.00060)		ND (0.00058)		ND (0.00063)		ND (0.00069)		ND (0.00086)		ND (0.00069)		ND (0.00070)	
1,1-Dichloroethane	**0.27**	**26**	ND (0.00051)		ND (0.00057)		ND (0.00060)		ND (0.00053)		ND (0.00052)		ND (0.00056)		ND (0.00061)		ND (0.00076)		ND (0.00062)		ND (0.00063)	
1,1-Dichloroethene	**0.33**	**100**	ND (0.00067)		ND (0.00075)		ND (0.00079)		ND (0.00071)		ND (0.00069)		ND (0.00074)		ND (0.00081)		ND (0.0010)		ND (0.00082)		ND (0.00083)	
1,2,3-Trichlorobenzene	**NS**	**NS**	ND (0.0026)		ND (0.0029)		ND (0.0030)		ND (0.0027)		ND (0.0026)		ND (0.0028)		ND (0.0031)		ND (0.0039)		ND (0.0031)		ND (0.0032)	
1,2,4-Trichlorobenzene	**NS**	**NS**	ND (0.0026)		ND (0.0029)		ND (0.0030)		ND (0.0027)		ND (0.0026)		ND (0.0028)		ND (0.0031)		ND (0.0039)		ND (0.0031)		ND (0.0032)	
1,2-Dibromo-3-chloropropane	**NS**	**NS**	ND (0.00071)		ND (0.00079)		ND (0.00084)		ND (0.00075)		ND (0.00073)		ND (0.00078)		ND (0.00086)		ND (0.0011)		ND (0.00087)		ND (0.00088)	
1,2-Dibromoethane	**NS**	**NS**	ND (0.00043)		ND (0.00048)		ND (0.00051)		ND (0.00045)		ND (0.00044)		ND (0.00048)		ND (0.00052)		ND (0.00065)		ND (0.00053)		ND (0.00053)	
1,2-Dichlorobenzene	**1.1**	**100**	ND (0.00056)		ND (0.00062)		ND (0.00066)		ND (0.00059)		ND (0.00057)		ND (0.00062)		ND (0.00068)		ND (0.00084)		ND (0.00068)		ND (0.00069)	
1,2-Dichloroethane	**0.02**	**3.1**	ND (0.00048)		ND (0.00054)		ND (0.00057)		ND (0.00051)		ND (0.00049)		ND (0.00053)		ND (0.00058)		ND (0.00073)		ND (0.00059)		ND (0.00059)	
1,2-Dichloropropane	**NS**	**NS**	ND (0.00048)		ND (0.00054)		ND (0.00057)		ND (0.00051)		ND (0.00050)		ND (0.00053)		ND (0.00059)		ND (0.00073)		ND (0.00059)		ND (0.00060)	
1,3-Dichlorobenzene	**2.4**	**49**	ND (0.00051)		ND (0.00057)		ND (0.00060)		ND (0.00054)		ND (0.00052)		ND (0.00056)		ND (0.00061)		ND (0.00077)		ND (0.00062)		ND (0.00063)	
1,4-Dichlorobenzene	**1.8**	**13**	ND (0.00050)		ND (0.00056)		ND (0.00060)		ND (0.00053)		ND (0.00052)		ND (0.00056)		ND (0.00061)		ND (0.00076)		ND (0.00062)		ND (0.00063)	
2-Butanone (MEK)	**0.12**	**100**	ND (0.0025)		ND (0.0028)		ND (0.0029)		ND (0.0026)		0.0103		ND (0.0027)		0.1		0.0136	J	ND (0.0030)		ND (0.0031)	
2-Hexanone	**NS**	**NS**	ND (0.0022)	b	ND (0.0024)	b	ND (0.0026)	b	ND (0.0023)	b	ND (0.0022)		ND (0.0024)		ND (0.0026)		ND (0.0033)		ND (0.0027)		ND (0.0027)	
4-Methyl-2-pentanone(MIBK)	**NS**	**NS**	ND (0.0023)		ND (0.0026)		ND (0.0027)		ND (0.0025)		ND (0.0024)		ND (0.0026)		ND (0.0028)		ND (0.0035)		ND (0.0028)		ND (0.0029)	
Acetone	**0.05**	**100**	ND (0.0042)		0.026		ND (0.0050)		0.006	J	**0.0555**		0.009	J	**0.0927**		**0.073**		0.0156		0.0199	
Benzene	**0.06**	**4.8**	ND (0.00047)		ND (0.00052)		ND (0.00055)		ND (0.00049)		ND (0.00048)		ND (0.00051)		ND (0.00056)		ND (0.00070)		0.00064		ND (0.00058)	
Bromochloromethane	**NS**	**NS**	ND (0.00057)		ND (0.00064)		ND (0.00068)		ND (0.00060)		ND (0.00059)		ND (0.00063)		ND (0.00069)		ND (0.00087)		ND (0.00070)		ND (0.00071)	
Bromodichloromethane	**NS**	**NS**	ND (0.00044)		ND (0.00049)		ND (0.00052)		ND (0.00046)		ND (0.00045)		ND (0.00048)		ND (0.00053)		ND (0.00066)		ND (0.00054)		ND (0.00054)	
Bromoform	**NS**	**NS**	ND (0.0014)		ND (0.0016)		ND (0.0016)		ND (0.0015)		ND (0.0014)		ND (0.0015)		ND (0.0017)		ND (0.0021)		ND (0.0017)		ND (0.0017)	
Bromomethane	**NS**	**NS**	ND (0.00078)	a	ND (0.00087)	a	ND (0.00092)	a	ND (0.00082)	a	ND (0.00080)	a	ND (0.00086)	a	ND (0.00095)	a	ND (0.0012)	a	ND (0.00096)	a	ND (0.00097)	a
Carbon disulfide	**NS**	**NS**	ND (0.00055)		ND (0.00061)		ND (0.00065)		0.0019	J	ND (0.00056)		ND (0.00060)		0.0012	J	ND (0.00083)		0.0012	J	ND (0.00068)	
Carbon tetrachloride	**0.76**	**2.4**	ND (0.00063)		ND (0.00071)		ND (0.00075)		ND (0.00067)		ND (0.00065)		ND (0.00070)		ND (0.00076)		ND (0.00095)		ND (0.00077)		ND (0.00078)	
Chlorobenzene	**1.1**	**100**	ND (0.00047)		ND (0.00052)		ND (0.00055)		ND (0.00050)		ND (0.00048)		ND (0.00052)		ND (0.00057)		ND (0.00071)		ND (0.00058)		ND (0.00058)	
Chloroethane	**NS**	**NS**	ND (0.00060)		ND (0.00068)		ND (0.00071)		ND (0.00064)		ND (0.00062)		ND (0.00067)		ND (0.00073)		ND (0.00091)		ND (0.00074)		ND (0.00075)	
Chloroform	**0.37**	**49**	ND (0.00053)		ND (0.00059)		ND (0.00063)		ND (0.00056)		ND (0.00054)		ND (0.00059)		ND (0.00064)		ND (0.00080)		ND (0.00065)		ND (0.00066)	
Chloromethane	**NS**	**NS**	ND (0.0020)		ND (0.0022)		ND (0.0024)		ND (0.0021)		ND (0.0021)		ND (0.0022)		ND (0.0024)		ND (0.0030)		ND (0.0025)		ND (0.0025)	
cis-1,2-Dichloroethene	**0.25**	**100**	ND (0.00086)		ND (0.00096)		ND (0.0010)		ND (0.00091)		ND (0.00088)		ND (0.00095)		ND (0.0010)		ND (0.0013)		ND (0.0011)		ND (0.0011)	
cis-1,3-Dichloropropene	**NS**	**NS**	ND (0.00049)		ND (0.00054)		ND (0.00057)		ND (0.00051)		ND (0.00050)		ND (0.00054)		ND (0.00059)		ND (0.00073)		ND (0.00060)		ND (0.00060)	
Cyclohexane	**NS**	**NS**	ND (0.00067)		ND (0.00075)		ND (0.00079)		ND (0.00071)		ND (0.00069)		ND (0.00074)		ND (0.00081)		ND (0.0010)		ND (0.00082)		ND (0.00083)	
Dibromochloromethane	**NS**	**NS**	ND (0.00057)		ND (0.00064)		ND (0.00068)		ND (0.00060)		ND (0.00059)		ND (0.00063)		ND (0.00069)		ND (0.00087)		ND (0.00070)		ND (0.00071)	
Dichlorodifluoromethane	**NS**	**NS**	ND (0.00074)		ND (0.00083)		ND (0.00088)		ND (0.00078)		ND (0.00076)		ND (0.00082)		ND (0.00090)		ND (0.0011)		ND (0.00091)		ND (0.00092)	
Ethylbenzene	**1**	**41**	ND (0.00046)		ND (0.00052)		ND (0.00055)		ND (0.00049)		ND (0.00047)		ND (0.00051)		ND (0.00056)		ND (0.00070)		0.0035		ND (0.00057)	
Freon 113	**NS**	**NS**	ND (0.0027)		ND (0.0031)		ND (0.0032)		ND (0.0029)		ND (0.0028)		ND (0.0030)		ND (0.0033)		ND (0.0041)		ND (0.0033)		ND (0.0034)	
Isopropylbenzene	**NS**	**NS**	ND (0.0015)		ND (0.0016)		ND (0.0017)		ND (0.0015)		ND (0.0015)		ND (0.0016)		ND (0.0018)		ND (0.0022)		ND (0.0018)		ND (0.0018)	
m,p-Xylene	**0.26**	**100**	ND (0.00092)		ND (0.0010)		ND (0.0011)		ND (0.00097)		ND (0.00094)		ND (0.0010)		ND (0.0011)		ND (0.0014)		0.0025		ND (0.0011)	
Methyl Acetate	**NS**	**NS**	ND (0.0014)		ND (0.0016)		ND (0.0017)		ND (0.0015)		ND (0.0015)		ND (0.0016)		ND (0.0017)		ND (0.0021)		ND (0.0017)		ND (0.0018)	
Methyl Tert Butyl Ether	**0.93**	**100**	ND (0.00048)		ND (0.00054)		ND (0.00057)		ND (0.00051)		ND (0.00049)		ND (0.00053)		ND (0.00058)		ND (0.00072)		ND (0.00059)		ND (0.00059)	
Methylcyclohexane	**NS**	**NS**	ND (0.00089)		ND (0.0010)		ND (0.0011)		ND (0.00094)		ND (0.00092)		ND (0.00099)		ND (0.0011)		ND (0.0014)		ND (0.0011)		ND (0.0011)	
Methylene chloride	**0.05**	**100**	ND (0.0027)		ND (0.0030)		ND (0.0031)		ND (0.0028)		ND (0.0027)		ND (0.0029)		ND (0.0032)		ND (0.0040)		ND (0.0033)		ND (0.0033)	
o-Xylene	**0.26**	**100**	ND (0.00047)		ND (0.00052)		ND (0.00055)		ND (0.00049)		ND (0.00048)		ND (0.00052)		ND (0.00057)		ND (0.00071)		0.0022		ND (0.00058)	
Styrene	**NS**	**NS**	ND (0.00041)		ND (0.00046)		ND (0.00048)		ND (0.00043)		ND (0.00042)		ND (0.00045)		ND (0.00050)		ND (0.00062)		0.0009	J	ND (0.00051)	
Tetrachloroethene	**1.3**	**19**	ND (0.00059)		ND (0.00066)		ND (0.00070)		ND (0.00063)		ND (0.00061)		ND (0.00066)		ND (0.00072)		ND (0.00090)		ND (0.00073)		ND (0.00073)	
Toluene	**0.7**	**100**	0.00072	J	0.0012		0.0013		0.00094	J	0.0011		0.001	J	0.002		0.0055		0.0024		0.001	J
trans-1,2-Dichloroethene	**0.19**	**100**	ND (0.00062)		ND (0.00070)		ND (0.00074)		ND (0.00066)		ND (0.00064)		ND (0.00069)		ND (0.00076)		ND (0.00094)		ND (0.00077)		ND (0.00077)	
trans-1,3-Dichloropropene	**NS**	**NS**	ND (0.00047)		ND (0.00052)		ND (0.00055)		ND (0.00049)		ND (0.00048)		ND (0.00052)		ND (0.00057)		ND (0.00071)		ND (0.00057)		ND (0.00058)	
Trichloroethene	**0.47**	**21**	ND (0.00078)		ND (0.00087)		ND (0.00092)		ND (0.00082)		ND (0.00080)		ND (0.00086)		ND (0.00094)		ND (0.0012)		ND (0.00096)		ND (0.00096)	
Trichlorofluoromethane	**NS**	**NS**	ND (0.00070)		ND (0.00078)		ND (0.00082)		ND (0.00074)		ND (0.00072)		ND (0.00077)		ND (0.00085)		ND (0.0011)		ND (0.00086)		ND (0.00087)	
Vinyl chloride	**0.02**	**0.9**	ND (0.00049)		ND (0.00055)		ND (0.00058)		ND (0.00052)		ND (0.00050)		ND (0.00054)		ND (0.00060)		ND (0.00074)		ND (0.00060)		ND (0.00061)	
Xylene (total)	**0.26**	**100**	ND (0.00047)		ND (0.00052)		ND (0.00055)		ND (0.00049)		ND (0.00048)		ND (0.00052)		ND (0.00057)		ND (0.00071)		0.0047		ND (0.00058)	
VOC Total TICs	**NS**	**NS**	0		0		0		0		0		0		0		0		1.0416	J	0.237	J
PFAS (ng/g)			**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**
Perfluorobutanoic acid	**NS**	**NS**	~		ND (0.47)		ND (0.45)		~		~		~		~		~		~		~	
Perfluoropentanoic acid	**NS**	**NS**	~		0.67		0.75		~		~		~		~		~		~		~	
Perfluorohexanoic acid	**NS**	**NS**	~		0.47	J	0.53	J	~		~		~		~		~		~		~	
Perfluoroheptanoic acid	**NS**	**NS**	~		0.36	J	0.47	J	~		~		~		~		~		~		~	
Perfluorooctanoic acid	**NS**	**NS**	~		0.55	J	0.86		~		~		~		~		~		~		~	
Perfluorononanoic acid	**NS**	**NS**	~		ND (0.31)		ND (0.30)		~		~		~		~		~		~		~	
Perfluorodecanoic acid	**NS**	**NS**	~		ND (0.31)		ND (0.30)		~		~		~		~		~		~		~	
Perfluoroundecanoic acid	**NS**	**NS**	~		ND (0.31)		ND (0.30)		~		~		~		~		~		~		~	
Perfluorododecanoic acid	**NS**	**NS**	~		ND (0.31)		ND (0.30)		~		~		~		~		~		~		~	
Perfluorotridecanoic acid	**NS**	**NS**	~		ND (0.33)		ND (0.32)		~		~		~		~		~		~		~	
Perfluorotetradecanoic acid	**NS**	**NS**	~		ND (0.31)		ND (0.30)		~		~		~		~		~		~		~	
Perfluorobutanesulfonic acid	**NS**	**NS**	~		ND (0.31)		ND (0.30)		~		~		~		~		~		~		~	
Perfluorohexanesulfonic acid	**NS**	**NS**	~		1.2		1		~		~		~		~		~		~		~	
Perfluoroheptanesulfonic acid	**NS**	**NS**	~		ND (0.31)		ND (0.30)		~		~		~		~		~		~		~	
Perfluorooctanesulfonic acid	**NS**	**NS**	~		3		1.8		~		~		~		~		~		~		~	
Perfluorodecanesulfonic acid	**NS**	**NS**	~		ND (0.31)		ND (0.30)		~		~		~		~		~		~		~	
PFOSA	**NS**	**NS**	~		ND (0.31)		ND (0.30)		~		~		~		~		~		~		~	
MeFOSAA	**NS**	**NS**	~		ND (0.62)		ND (0.60)		~		~		~		~		~		~		~	
EtFOSAA	**NS**	**NS**	~		ND (0.62)		ND (0.60)		~		~		~		~		~		~		~	
6:2 Fluorotelomer sulfonate	**NS**	**NS**	~		4.4		ND (0.30)		~		~		~		~		~		~		~	
8:2 Fluorotelomer sulfonate	**NS**	**NS**	~		ND (0.31)		ND (0.30)		~		~		~		~		~		~		~	

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
ND = Analyzed for but Not Detected at the MDL; () = The MDL for compounds that are Non-Detect
J = Estimated concentration detected at a value above the MDL for target compounds
~ = Sample not analyzed

a Associated CCV outside of control limits low.
b Associated CCV outside of control limits high, sample was ND.
c This compound outside control limits biased high in the associated BS.
d More than 40 % RPD for detected concentrations between the two GC columns.
e Elevated detection limit due to dilution required for high interfering element.

Table 1 (cont'd) - Soil Results - SVOCs
78 Bridge Street
Tonawanda, New York

HK Engineering & Geology, D.P.C.
Project #: HK2550-1
Sample Date: 8/9/2021

Target Compounds	NYSDEC Unrestricted Use SCO	NYSDEC Restricted Residential SCO	S1A Sample Depth: 0-2'		S1B Sample Depth: 2-4'		S2B Sample Depth: 2-4'		S3A Sample Depth: 0-2'		S3B Sample Depth: 2.5-4.5'		S4B Sample Depth: 3-5'		S5B Sample Depth: 3-5'		S6B Sample Depth: 3-5'		S7B Sample Depth: 3-5'		S8A Sample Depth: 0-2'	
Semivolatiles (mg/Kg)			Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
1,1'-Biphenyl	NS	NS	ND (0.0047)		ND (0.0056)		ND (0.0055)		0.147		0.007	J	0.0326	J	ND (0.0054)		0.128	J	2.44		0.0292	J
1,2,4,5-Tetrachlorobenzene	NS	NS	ND (0.0088)		ND (0.010)		ND (0.010)		ND (0.0096)		ND (0.0097)		ND (0.0090)		ND (0.010)		ND (0.020)		ND (0.040)		ND (0.0093)	
1,4-Dioxane	0.1	13	ND (0.023)		ND (0.027)		ND (0.027)		ND (0.025)		ND (0.025)		ND (0.023)		ND (0.026)		ND (0.053)		ND (0.11)		ND (0.024)	
2,2'-Oxybis(1-chloropropane)	NS	NS	ND (0.012)		ND (0.015)		ND (0.015)		ND (0.014)		ND (0.014)		ND (0.013)		ND (0.014)		ND (0.029)		ND (0.057)		ND (0.013)	
2,3,4,6-Tetrachlorophenol	NS	NS	ND (0.023)		ND (0.027)		ND (0.027)		ND (0.025)		ND (0.025)		ND (0.023)		ND (0.026)		ND (0.053)		ND (0.11)		ND (0.024)	
2,4,5-Trichlorophenol	NS	NS	ND (0.026)		ND (0.031)		ND (0.030)		ND (0.028)		ND (0.029)		ND (0.027)		ND (0.030)		ND (0.060)		ND (0.12)		ND (0.027)	
2,4,6-Trichlorophenol	NS	NS	ND (0.021)		ND (0.024)		ND (0.024)		ND (0.022)		ND (0.023)		ND (0.021)		ND (0.024)		ND (0.048)		ND (0.095)		ND (0.022)	
2,4-Dichlorophenol	NS	NS	ND (0.029)		ND (0.035)		ND (0.035)		ND (0.032)		ND (0.033)		ND (0.030)		ND (0.034)		ND (0.068)		ND (0.14)		ND (0.031)	
2,4-Dimethylphenol	NS	NS	ND (0.061)		ND (0.073)		ND (0.072)		ND (0.067)		ND (0.068)		ND (0.063)		ND (0.071)		ND (0.14)		ND (0.28)		ND (0.065)	
2,4-Dinitrophenol	NS	NS	ND (0.13)		ND (0.15)		ND (0.15)		ND (0.14)		ND (0.14)		ND (0.13)		ND (0.15)		ND (0.30)		ND (0.60)		ND (0.14)	
2,4-Dinitrotoluene	NS	NS	ND (0.011)		ND (0.013)		ND (0.013)		ND (0.012)		ND (0.012)		ND (0.011)		ND (0.012)		ND (0.025)		ND (0.049)		ND (0.011)	
2,6-Dinitrotoluene	NS	NS	ND (0.017)		ND (0.021)		ND (0.020)		ND (0.019)		ND (0.019)		ND (0.018)		ND (0.020)		ND (0.040)		ND (0.080)		ND (0.018)	
2-Chloronaphthalene	NS	NS	ND (0.0082)		ND (0.0097)		ND (0.0096)		ND (0.0090)		ND (0.0091)		ND (0.0084)		ND (0.0094)		ND (0.019)		ND (0.038)		ND (0.0087)	
2-Chlorophenol	NS	NS	ND (0.017)		ND (0.020)		ND (0.020)		ND (0.019)		ND (0.019)		ND (0.018)		ND (0.020)		ND (0.040)		ND (0.079)		ND (0.018)	
2-Methylnaphthalene	NS	NS	ND (0.0078)		ND (0.0092)		ND (0.0091)		0.252		0.0264	J	0.0968		0.0099	J	0.507		8.36		0.0995	
2-Methylphenol	0.33	100	ND (0.022)		ND (0.026)		ND (0.026)		ND (0.024)		ND (0.024)		ND (0.023)		ND (0.025)		ND (0.051)		0.14	J	ND (0.023)	
2-Nitroaniline	NS	NS	ND (0.0081)		ND (0.0096)		ND (0.0095)		ND (0.0089)		ND (0.0090)		ND (0.0084)		ND (0.0094)		ND (0.019)		ND (0.038)		ND (0.0086)	
2-Nitrophenol	NS	NS	ND (0.023)		ND (0.027)		ND (0.027)		ND (0.025)		ND (0.025)		ND (0.023)		ND (0.026)		ND (0.053)		ND (0.11)		ND (0.024)	
3&4-Methylphenol	NS	NS	ND (0.028)		ND (0.034)		ND (0.033)		ND (0.031)		ND (0.031)		ND (0.029)		ND (0.033)		0.0743	J	0.399		ND (0.030)	
3,3'-Dichlorobenzidine	NS	NS	ND (0.029)		ND (0.034)		ND (0.034)		ND (0.031)		ND (0.032)		ND (0.030)		ND (0.033)		ND (0.067)		ND (0.13)		ND (0.030)	
3-Nitroaniline	NS	NS	ND (0.0086)		ND (0.010)		ND (0.010)		ND (0.0094)		ND (0.0096)		ND (0.0089)		ND (0.0099)		ND (0.020)		ND (0.040)		ND (0.0091)	
4,6-Dinitro-o-cresol	NS	NS	ND (0.037)		ND (0.044)		ND (0.043)		ND (0.040)		ND (0.041)		ND (0.038)		ND (0.042)		ND (0.086)		ND (0.17)		ND (0.039)	
4-Bromophenyl phenyl ether	NS	NS	ND (0.013)		ND (0.016)		ND (0.016)		ND (0.015)		ND (0.015)		ND (0.014)		ND (0.015)		ND (0.031)		ND (0.062)		ND (0.014)	
4-Chloro-3-methyl phenol	NS	NS	ND (0.021)		ND (0.025)		ND (0.025)		ND (0.023)		ND (0.023)		ND (0.022)		ND (0.024)		ND (0.049)		ND (0.098)		ND (0.022)	
4-Chloroaniline	NS	NS	ND (0.012)		ND (0.015)		ND (0.015)		ND (0.014)		ND (0.014)		ND (0.013)		ND (0.014)		ND (0.029)		ND (0.057)		ND (0.013)	
4-Chlorophenyl phenyl ether	NS	NS	ND (0.011)		ND (0.013)		ND (0.013)		ND (0.012)		ND (0.012)		ND (0.012)		ND (0.013)		ND (0.026)		ND (0.052)		ND (0.012)	
4-Nitroaniline	NS	NS	ND (0.0089)		ND (0.011)		ND (0.010)		ND (0.0097)		ND (0.0099)		ND (0.0092)		ND (0.010)		ND (0.021)		ND (0.041)		ND (0.0095)	
4-Nitrophenol	NS	NS	ND (0.092)		ND (0.11)		ND (0.11)		ND (0.10)		ND (0.10)		ND (0.095)		ND (0.11)		ND (0.21)		ND (0.43)		ND (0.097)	
Acenaphthene	20	100	ND (0.012)		ND (0.014)		ND (0.014)		1.33		0.0256	J	0.33		ND (0.014)		1.72		22.6		0.517	
Acenaphthylene	100	100	ND (0.018)		ND (0.021)		ND (0.021)		0.0427		0.0336	J	0.0301	J	ND (0.020)		0.0862		0.68		0.0222	J
Acetophenone	NS	NS	ND (0.0074)		ND (0.0088)		ND (0.0087)		ND (0.0081)		ND (0.0082)		ND (0.0076)		ND (0.0085)		ND (0.017)		ND (0.034)		ND (0.0078)	
Anthracene	100	100	ND (0.021)		ND (0.025)		ND (0.025)		3.62		0.0878		0.976		ND (0.024)		5.35		65.4		1.4	
Atrazine	NS	NS	ND (0.015)		ND (0.017)		ND (0.017)		ND (0.016)		ND (0.016)		ND (0.015)		ND (0.017)		ND (0.034)		ND (0.068)		ND (0.016)	
Benzaldehyde	NS	NS	ND (0.0086)		ND (0.010)		ND (0.010)		ND (0.0093)		ND (0.0095)		ND (0.0088)		0.0653	J	ND (0.020)		ND (0.040)		0.031	J
Benzo(a)anthracene	1	1	0.0164	J	ND (0.012)		ND (0.011)		8.19		0.402		2.74		0.0475		11.7		101		3.7	
Benzo(a)pyrene	1	1	0.0221	J	ND (0.019)		ND (0.018)		6.11		0.347		2.42		0.0399	J	8.87		74.5		3.44	
Benzo(b)fluoranthene	1	1	0.0225	J	ND (0.018)		ND (0.018)		7.46		0.442		3.23		0.0458		10.3		88.3		3.3	
Benzo(g,h,i)perylene	100	100	0.0554		ND (0.020)		ND (0.020)		1.88		0.205		0.685		0.0301	J	4.1		14.8		1.37	
Benzo(k)fluoranthene	0.8	3.9	ND (0.016)		ND (0.019)		ND (0.019)		2.9		0.168		1.1		ND (0.019)		5.21		37.6		1.48	
bis(2-Chloroethoxy)methane	NS	NS	ND (0.0074)		ND (0.0087)		ND (0.0087)		ND (0.0081)		ND (0.0082)		ND (0.0076)		ND (0.0085)		ND (0.017)		ND (0.034)		ND (0.0078)	
bis(2-Chloroethyl)ether	NS	NS	ND (0.015)		ND (0.018)		ND (0.017)		ND (0.016)		ND (0.017)		ND (0.015)		ND (0.017)		ND (0.035)		ND (0.069)		ND (0.016)	
bis(2-Ethylhexyl)phthalate	NS	NS	0.0268	J	ND (0.0096)		ND (0.0095)		ND (0.0088)		0.0152	J	ND (0.0083)		0.0518	J	ND (0.019)		ND (0.037)		0.0472	J
Butyl benzyl phthalate	NS	NS	ND (0.0084)		ND (0.010)		ND (0.0099)		ND (0.0092)		ND (0.0093)		ND (0.0087)		ND (0.0097)		ND (0.020)		ND (0.039)		ND (0.0089)	
Caprolactam	NS	NS	ND (0.014)		ND (0.016)		ND (0.016)		ND (0.015)		ND (0.015)		ND (0.014)		ND (0.016)		ND (0.032)		ND (0.063)		ND (0.014)	
Carbazole	NS	NS	ND (0.0050)		ND (0.0059)		ND (0.0059)		1.52		0.0461	J	0.496		ND (0.0058)		1.75		16.6		0.565	
Chrysene	1	3.9	0.042		ND (0.013)		ND (0.013)		7.5		0.461		2.55		0.0449		10.8		89.1		3.55	
Dibenzo(a,h)anthracene	0.33	0.33	ND (0.015)		ND (0.018)		ND (0.018)		0.638		0.0584		0.236		ND (0.018)		1.95		7.95		0.48	
Dibenzofuran	7	59	ND (0.014)		ND (0.017)		ND (0.016)		1.05		0.0273	J	0.192		ND (0.016)		1.04		18.2		0.257	
Diethyl phthalate	NS	NS	ND (0.0073)		ND (0.0087)		ND (0.0086)		ND (0.0080)		ND (0.0082)		ND (0.0076)		ND (0.0084)		ND (0.017)		ND (0.034)		ND (0.0078)	
Dimethyl phthalate	NS	NS	ND (0.0061)		ND (0.0073)		ND (0.0072)		ND (0.0067)		ND (0.0068)		ND (0.0063)		ND (0.0071)		ND (0.014)		ND (0.028)		ND (0.0065)	
Di-n-butyl phthalate	NS	NS	ND (0.0056)		ND (0.0067)		ND (0.0066)		ND (0.0061)		ND (0.0062)		ND (0.0058)		ND (0.0065)		ND (0.013)		ND (0.026)		ND (0.0060)	
Di-n-octyl phthalate	NS	NS	ND (0.0086)	b	ND (0.010)	b	ND (0.010)	b	ND (0.0094)	b	ND (0.0095)	b	ND (0.0088)	b	ND (0.0099)	b	ND (0.020)	b	ND (0.040)	b	ND (0.0091)	b
Fluoranthene	100	100	0.0232	J	ND (0.018)		ND (0.018)		17.8		0.857		4.4		0.0746		22.4		185		6.9	
Fluorene	30	100	ND (0.016)		ND (0.019)		ND (0.019)		1.41		0.0326	J	0.337		ND (0.018)		1.9		30.5		0.469	
Hexachlorobenzene	0.33	1.2	ND (0.0087)		ND (0.010)		ND (0.010)		ND (0.0095)		ND (0.0097)		ND (0.0090)		ND (0.010)		ND (0.020)		ND (0.040)		ND (0.0092)	
Hexachlorobutadiene	NS	NS	ND (0.014)		ND (0.016)		ND (0.016)		ND (0.015)		ND (0.015)		ND (0.014)		ND (0.016)		ND (0.032)		ND (0.064)		ND (0.015)	
Hexachlorocyclopentadiene	NS	NS	ND (0.014)		ND (0.016)		ND (0.016)		ND (0.015)		ND (0.015)		ND (0.014)		ND (0.016)		ND (0.032)		ND (0.063)		ND (0.015)	
Hexachloroethane	NS	NS	ND (0.017)		ND (0.020)		ND (0.020)		ND (0.019)		ND (0.019)		ND (0.018)		ND (0.020)		ND (0.040)		ND (0.079)		ND (0.018)	
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.0305	J	ND (0.019)		ND (0.019)		2.51		0.236		0.894		0.0319	J	4.96		38.6		1.84	
Isophorone	NS	NS	ND (0.0074)		ND (0.0087)		ND (0.0087)		ND (0.0081)		ND (0.0082)		ND (0.0076)		ND (0.0085)		ND (0.017)		ND (0.034)		ND (0.0078)	
Naphthalene	12	100	ND (0.0097)		ND (0.012)		ND (0.011)		0.256		0.053		0.198		0.0184	J	1.17		13.2		0.173	
Nitrobenzene	NS	15	ND (0.013)		ND (0.016)		ND (0.016)		ND (0.015)		ND (0.015)		ND (0.014)		ND (0.015)		ND (0.031)		ND (0.062)		ND (0.014)	
N-Nitroso-di-n-propylamine	NS	NS	ND (0.010)		ND (0.012)		ND (0.012)		ND (0.011)		ND (0.011)		ND (0.010)		ND (0.011)		ND (0.023)		ND (0.046)		ND (0.011)	
N-Nitrosodiphenylamine	NS	NS	ND (0.013)		ND (0.015)		ND (0.015)		ND (0.014)		ND (0.014)		ND (0.013)		ND (0.015)		ND (0.029)		ND (0.058)		ND (0.013)	
Pentachlorophenol	0.8	6.7	ND (0.032)		ND (0.038)		ND (0.038)		ND (0.035)		ND (0.036)		ND (0.033)		ND (0.037)		ND (0.075)		ND (0.15)		ND (0.034)	
Phenanthrene	100	100	0.0204	J	ND (0.014)		ND (0.014)		15.7		0.438		3.15		0.0388	J	16.9		202		4.82	
Phenol	0.33	100	ND (0.018)		ND (0.021)		ND (0.021)		ND (0.020)		ND (0.020)		ND (0.019)		ND (0.021)		ND (0.042)		0.185	J	ND (0.019)	
Pyrene	100	100	0.0217	J	ND (0.013)		ND (0.013)		15.2		0.717		3.91		0.0546		20.9		178		6.49	
SVOC Total TICs	NS	NS	1.43	J	0.67	J	0		18.74	J	1.24	J	9.42	J	48.78	J	44.45	J	69.45	J	16.79	J

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
ND = Analyzed for but Not Detected at the MDL; () = The MDL for compounds that are Non-Detect
J = Estimated concentration detected at a value above the MDL for target compounds

a Associated CCV outside of control limits low.
b Associated CCV outside of control limits high, sample was ND.
c This compound outside control limits biased high in the associated BS.
d More than 40 % RPD for detected concentrations between the two GC columns.
e Elevated detection limit due to dilution required for high interfering element.

Table 1 (cont'd) - Soil Results - Pesticides, PCBs, Metals
78 Bridge Street
Tonawanda, New York

HK Engineering & Geology, D.P.C.
Project #: HK2550-1
Sample Date: 8/9/2021

Target Compounds	NYSDEC Unrestricted Use SCO	NYSDEC Restricted Residential SCO	S1A Sample Depth: 0-2'		S1B Sample Depth: 2-4'		S2B Sample Depth: 2-4'		S3A Sample Depth: 0-2'		S3B Sample Depth: 2.5-4.5'		S4B Sample Depth: 3-5'		S5B Sample Depth: 3-5'		S6B Sample Depth: 3-5'		S7B Sample Depth: 3-5'		S8A Sample Depth: 0-2'	
Pesticides (mg/Kg)			**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**
4,4'-DDD	**0.0033**	**13**	ND (0.00064)	c	ND (0.00074)	c	ND (0.00074)	c	ND (0.00069)	c	ND (0.00069)		ND (0.00067)	c	ND (0.00073)		ND (0.00073)		**0.0486**		ND (0.0032)	c
4,4'-DDE	**0.0033**	**8.9**	ND (0.00062)		ND (0.00070)		ND (0.00070)		ND (0.00066)		**0.0071**	d	ND (0.00064)		ND (0.00070)		ND (0.00069)		**0.0096**	d	ND (0.0031)	
4,4'-DDT	**0.0033**	**7.9**	ND (0.00062)		ND (0.00071)		ND (0.00071)		ND (0.00066)		**0.0046**	d	ND (0.00064)		0.00078	J d	**0.0068**	d	ND (0.00067)		ND (0.0031)	
Aldrin	**0.005**	**0.097**	ND (0.00058)		ND (0.00066)		ND (0.00066)		ND (0.00062)		ND (0.00062)		ND (0.00060)		ND (0.00065)		ND (0.00065)		ND (0.00062)		ND (0.0029)	
alpha-BHC	**0.02**	**0.48**	ND (0.00057)		ND (0.00065)		ND (0.00065)		ND (0.00061)		ND (0.00061)		ND (0.00059)		ND (0.00064)		ND (0.00064)		ND (0.00061)		ND (0.0029)	
alpha-Chlordane	**0.094**	**4.2**	ND (0.00057)		ND (0.00065)		ND (0.00065)		ND (0.00060)		ND (0.00061)		ND (0.00059)		ND (0.00064)		ND (0.00064)		ND (0.00061)		ND (0.0028)	
beta-BHC	**0.036**	**0.36**	ND (0.00064)		ND (0.00072)		ND (0.00072)		ND (0.00068)		ND (0.00068)		ND (0.00066)		ND (0.00072)		ND (0.00072)		ND (0.00068)		ND (0.0032)	
delta-BHC	**0.04**	**100**	ND (0.00067)		ND (0.00077)		ND (0.00077)		ND (0.00072)		ND (0.00073)		ND (0.00070)		ND (0.00076)		ND (0.00076)		ND (0.00072)		ND (0.0034)	
Dieldrin	**0.005**	**0.2**	ND (0.00048)		ND (0.00055)		ND (0.00055)		ND (0.00051)		ND (0.00052)		ND (0.00050)		ND (0.00055)		ND (0.00054)		ND (0.00052)		ND (0.0024)	
Endosulfan sulfate	**2.4**	**24**	ND (0.00055)		ND (0.00063)		ND (0.00063)		ND (0.00058)		ND (0.00059)		ND (0.00057)		ND (0.00062)		ND (0.00062)		ND (0.00059)		ND (0.0027)	
Endosulfan-I	**2.4**	**24**	ND (0.00040)		ND (0.00046)		ND (0.00046)		ND (0.00043)		ND (0.00044)		ND (0.00042)		ND (0.00046)		ND (0.00046)		ND (0.00043)		ND (0.0020)	
Endosulfan-II	**2.4**	**24**	ND (0.00044)		ND (0.00050)		ND (0.00050)		ND (0.00047)		ND (0.00047)		ND (0.00045)		ND (0.00050)		ND (0.00049)		ND (0.00047)		ND (0.0022)	
Endrin	**0.014**	**11**	ND (0.00055)		ND (0.00062)		ND (0.00062)		ND (0.00058)		ND (0.00059)		ND (0.00056)		ND (0.00062)		ND (0.00062)		ND (0.00058)		ND (0.0027)	
Endrin aldehyde	**NS**	**NS**	ND (0.00040)		ND (0.00045)		ND (0.00045)		ND (0.00042)		ND (0.00043)		ND (0.00041)		ND (0.00045)		ND (0.00045)		ND (0.00043)		ND (0.0020)	
Endrin ketone	**NS**	**NS**	ND (0.00051)		ND (0.00058)		ND (0.00058)		ND (0.00054)		ND (0.00055)		ND (0.00052)		ND (0.00057)		ND (0.00057)		ND (0.00054)		ND (0.0025)	
gamma-BHC (Lindane)	**0.1**	**1.3**	ND (0.00052)		ND (0.00059)		ND (0.00059)		ND (0.00055)		ND (0.00056)		ND (0.00053)		ND (0.00058)		ND (0.00058)		0.0087	d	ND (0.0026)	
gamma-Chlordane	**NS**	**NS**	ND (0.00032)		ND (0.00036)		ND (0.00036)		ND (0.00034)		ND (0.00034)		ND (0.00033)		ND (0.00036)		ND (0.00036)		0.0688	d	ND (0.0016)	
Heptachlor	**0.042**	**2.1**	ND (0.00061)		ND (0.00069)		ND (0.00069)		ND (0.00065)		ND (0.00065)		ND (0.00063)		ND (0.00068)		ND (0.00068)		ND (0.00065)		ND (0.0030)	
Heptachlor epoxide	**NS**	**NS**	ND (0.00049)		ND (0.00056)		ND (0.00056)		ND (0.00052)		ND (0.00053)		ND (0.00051)		ND (0.00056)		ND (0.00056)		ND (0.00053)		ND (0.0025)	
Methoxychlor	**NS**	**NS**	ND (0.00056)	c	ND (0.00064)	c	ND (0.00064)	c	ND (0.00060)	c	ND (0.00060)		ND (0.00058)	c	ND (0.00063)		0.0196		ND (0.00060)		ND (0.0028)	c
Toxaphene	**NS**	**NS**	ND (0.016)		ND (0.019)		ND (0.019)		ND (0.017)		ND (0.018)		ND (0.017)		ND (0.018)		ND (0.018)		ND (0.018)		ND (0.082)	
PCBs (mg/Kg)			**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**
Aroclor 1016	**0.1**	**1**	ND (0.016)		ND (0.019)		ND (0.018)		ND (0.017)		ND (0.017)		ND (0.017)		ND (0.019)		ND (0.019)		ND (0.018)		ND (0.016)	
Aroclor 1221	**0.1**	**1**	ND (0.022)		ND (0.025)		ND (0.023)		ND (0.023)		ND (0.023)		ND (0.022)		ND (0.025)		ND (0.025)		ND (0.024)		ND (0.022)	
Aroclor 1232	**0.1**	**1**	ND (0.022)		ND (0.026)		ND (0.024)		ND (0.024)		ND (0.024)		ND (0.023)		ND (0.026)		ND (0.025)		ND (0.025)		ND (0.022)	
Aroclor 1242	**0.1**	**1**	ND (0.014)		ND (0.016)		ND (0.015)		ND (0.015)		ND (0.015)		ND (0.015)		ND (0.016)		ND (0.016)		ND (0.016)		ND (0.014)	
Aroclor 1248	**0.1**	**1**	ND (0.031)		ND (0.036)		ND (0.034)		ND (0.033)		ND (0.033)		ND (0.032)		ND (0.036)		ND (0.036)		ND (0.035)		ND (0.031)	
Aroclor 1254	**0.1**	**1**	ND (0.019)		ND (0.022)		ND (0.020)		ND (0.020)		ND (0.020)		ND (0.019)		ND (0.022)		ND (0.021)		ND (0.021)		ND (0.019)	
Aroclor 1260	**0.1**	**1**	ND (0.015)		ND (0.017)		ND (0.016)		ND (0.016)		ND (0.016)		ND (0.015)		ND (0.017)		ND (0.017)		ND (0.017)		ND (0.015)	
Aroclor 1268	**0.1**	**1**	ND (0.015)		ND (0.017)		ND (0.016)		ND (0.016)		ND (0.016)		ND (0.015)		ND (0.017)		ND (0.017)		ND (0.016)		ND (0.015)	
Aroclor 1262	**0.1**	**1**	ND (0.023)		ND (0.026)		ND (0.025)		ND (0.024)		ND (0.024)		ND (0.024)		ND (0.026)		ND (0.026)		ND (0.026)		ND (0.023)	
Metals (mg/Kg)			**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**
Aluminum	**NS**	**NS**	7960		11000		9060		11900		5970		10900		7410		9070		11000		10100	
Antimony	**NS**	**NS**	<2.2		<2.5		<2.5		<2.3		<2.4		<2.2		<2.5		<2.4		<2.4		<2.3	
Arsenic	**13**	**16**	3.1		3.4		6.3		10.3		3.8		11		7.9		9.1		12.8		6.3	
Barium	**350**	**400**	66.4		66		52.7		265		45		98.7		55.3		86.4		188		79.3	
Beryllium	**7.2**	**72**	<1.1	e	0.6		0.55		1.2	e	0.37		<1.1	e	<1.3	e	<1.2	e	1.3	e	<1.1	e
Cadmium	**2.5**	**4.3**	<0.56		<0.64		<0.62		0.72		<0.60		<0.56		<0.63		0.63		0.89		<0.57	
Calcium	**NS**	**NS**	99500		7210		2870		113000		19900		82000		41700		71600		70100		54700	
Chromium	**NS**	**NS**	9.6		14.2		12.3		15.5		8.5		15.8		9.9		11.8		16		13.8	
Cobalt	**NS**	**NS**	<5.6		8.9		7.5		6.5		<6.0		<5.6		<6.3		<6.1		<6.1		6.7	
Copper	**50**	**270**	11.8		13.5		12.9		24.4		15.8		18.6		14.3		23.3		34.5		23.8	
Iron	**NS**	**NS**	12400		17400		22000		17700		12600		16200		17400		14400		16700		15600	
Lead	**63**	**400**	12.1		11.7		10.1		**131**		30.2		**176**		40.1		**241**		**344**		**67.8**	
Magnesium	**NS**	**NS**	29100		4540		2740		10800		7410		5160		9850		8980		4760		14500	
Manganese	**1600**	**2000**	666		180		194		803		225		483		393		516		562		558	
Mercury	**0.18**	**0.81**	<0.032		<0.039		<0.034		<0.032		0.046		**0.49**		<0.038		**0.82**		<0.035		<0.030	
Nickel	**30**	**310**	12.1		18.8		17.6		16.5		11.9		14.5		14.2		14.4		16.3		17.3	
Potassium	**NS**	**NS**	1890		<1300		<1200		1650		<1200		1310		1380		<1200		<1200		1710	
Selenium	**3.9**	**180**	<2.2		<2.5		<2.5		<2.3		<2.4		<2.2		<2.5		<2.4		<2.4		<2.3	
Silver	**2**	**180**	<2.8	e	<0.64		<0.62		<2.9	e	<0.60		<2.8	e	0.71		<3.0	e	<3.0	e	0.77	
Sodium	**NS**	**NS**	<1100		<1300		<1200		<1200		<1200		<1100		<1300		<1200		<1200		<1100	
Thallium	**NS**	**NS**	<1.1		<1.3		<1.2		<1.2		<1.2		<1.1		<1.3		<1.2		<1.2		<1.1	
Vanadium	**NS**	**NS**	14.9		20.8		19.7		18		14.8		17.4		13.9		17.2		17.5		18.5	
Zinc	**109**	**10000**	66.4		72.5		59.3		97.6		67.4		64.5		86.3		80.4		**228**		81	
General Chemistry			**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**
Cyanide (mg/kg)	**27**	**27**	<0.25		<0.26		<0.26		0.67		<0.25		0.86		0.9		0.46		1		0.29	
Solids, Percent (%)	**NS**	**NS**	92.3		81		81.3		87.4		85.3		90.3		80.8		80.9		83.1		89.8	

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
ND = Analyzed for but Not Detected at the MDL; () = The MDL for compounds that are Non-Detect
J = Estimated concentration detected at a value above the MDL for target compounds

a Associated CCV outside of control limits low.
b Associated CCV outside of control limits high, sample was ND.
c This compound outside control limits biased high in the associated BS.
d More than 40 % RPD for detected concentrations between the two GC columns.
e Elevated detection limit due to dilution required for high interfering element.

Table 2 - Groundwater Results - VOCs
78 Bridge Street
Tonawanda, New York

HK Engineering & Geology, D.P.C.
Project #: HK2550-1
Sample Date: 8/9/2021

Target Compounds	NYSDEC Ambient Water Quality Standards (AWQS)	TWP1		TWP3		TWP5	
Volatiles (µg/L)		**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**
1,1,1-Trichloroethane	**5**	ND (0.54)		ND (0.54)		ND (0.54)	
1,1,2,2-Tetrachloroethane	**5**	ND (0.65)		ND (0.65)		ND (0.65)	
1,1,2-Trichloroethane	**1**	ND (0.53)		ND (0.53)		ND (0.53)	
1,1-Dichloroethane	**5**	ND (0.57)		ND (0.57)		ND (0.57)	
1,1-Dichloroethene	**5**	ND (0.59)	a	ND (0.59)	a	ND (0.59)	a
1,2,3-Trichlorobenzene	**5**	ND (0.50)		ND (0.50)		ND (0.50)	
1,2,4-Trichlorobenzene	**5**	ND (0.50)		ND (0.50)		ND (0.50)	
1,2-Dibromo-3-chloropropane	**0.04**	ND (0.53)	a	ND (0.53)	a	ND (0.53)	a
1,2-Dibromoethane	**0.0006**	ND (0.48)		ND (0.48)		ND (0.48)	
1,2-Dichlorobenzene	**3**	ND (0.53)		ND (0.53)		ND (0.53)	
1,2-Dichloroethane	**0.6**	ND (0.60)		ND (0.60)		ND (0.60)	
1,2-Dichloropropane	**1**	ND (0.51)		ND (0.51)		ND (0.51)	
1,3-Dichlorobenzene	**3**	ND (0.54)		ND (0.54)		ND (0.54)	
1,4-Dichlorobenzene	**3**	ND (0.51)		ND (0.51)		ND (0.51)	
2-Butanone (MEK)	**NS**	ND (6.9)		ND (6.9)		ND (6.9)	
2-Hexanone	**NS**	ND (2.0)		ND (2.0)		ND (2.0)	
4-Methyl-2-pentanone(MIBK)	**NS**	ND (1.9)		ND (1.9)		ND (1.9)	
Acetone	**NS**	ND (3.1)		ND (3.1)		ND (3.1)	
Benzene	**1**	ND (0.43)		0.51		ND (0.43)	
Bromochloromethane	**5**	ND (0.48)		ND (0.48)		ND (0.48)	
Bromodichloromethane	**NS**	ND (0.45)		ND (0.45)		ND (0.45)	
Bromoform	**NS**	ND (0.63)		ND (0.63)		ND (0.63)	
Bromomethane	**5**	ND (1.6)	a	ND (1.6)	a	ND (1.6)	a
Carbon disulfide	**60**	ND (0.46)	a	ND (0.46)	a	ND (0.46)	a
Carbon tetrachloride	**5**	ND (0.55)		ND (0.55)		ND (0.55)	
Chlorobenzene	**5**	ND (0.56)		ND (0.56)		ND (0.56)	
Chloroethane	**5**	ND (0.73)		ND (0.73)		ND (0.73)	
Chloroform	**7**	ND (0.50)		ND (0.50)		ND (0.50)	
Chloromethane	**5**	ND (0.76)		ND (0.76)		ND (0.76)	
cis-1,2-Dichloroethene	**5**	ND (0.51)		2.4		ND (0.51)	
cis-1,3-Dichloropropene	**NS**	ND (0.47)		ND (0.47)		ND (0.47)	
Cyclohexane	**NS**	ND (0.78)	a	ND (0.78)	a	ND (0.78)	a
Dibromochloromethane	**NS**	ND (0.56)		ND (0.56)		ND (0.56)	
Dichlorodifluoromethane	**5**	ND (0.56)	a	ND (0.56)	a	ND (0.56)	a
Ethylbenzene	**5**	ND (0.60)		ND (0.60)		ND (0.60)	
Freon 113	**5**	ND (0.58)		ND (0.58)		ND (0.58)	
Isopropylbenzene	**5**	ND (0.65)		ND (0.65)		ND (0.65)	
m,p-Xylene	**NS**	ND (0.78)		ND (0.78)		ND (0.78)	
Methyl Acetate	**NS**	ND (0.80)		ND (0.80)		ND (0.80)	
Methyl Tert Butyl Ether	**10**	ND (0.51)		0.6	J	ND (0.51)	
Methylcyclohexane	**NS**	ND (0.60)		ND (0.60)		ND (0.60)	
Methylene chloride	**5**	ND (1.0)		ND (1.0)		ND (1.0)	
o-Xylene	**5**	ND (0.59)		ND (0.59)		ND (0.59)	
Styrene	**5**	ND (0.49)		ND (0.49)		ND (0.49)	
Tetrachloroethene	**5**	ND (0.90)		ND (0.90)		ND (0.90)	
Toluene	**5**	ND (0.53)		ND (0.53)		ND (0.53)	
trans-1,2-Dichloroethene	**5**	ND (0.54)		ND (0.54)		ND (0.54)	
trans-1,3-Dichloropropene	**NS**	ND (0.43)		ND (0.43)		ND (0.43)	
Trichloroethene	**5**	ND (0.53)		ND (0.53)		ND (0.53)	
Trichlorofluoromethane	**5**	ND (0.40)		ND (0.40)		ND (0.40)	
Vinyl chloride	**2**	ND (0.79)		ND (0.79)		ND (0.79)	
Xylene (total)	**5**	ND (0.59)		ND (0.59)		ND (0.59)	
VOC Total TICs	**NS**	0		0		0	

Results in Blue Highlight displays exceedance above the NYSDEC Ambient Water Quality Standards (AWQS)
J = Estimated concentration detected at a value above the MDL for target compounds
NS = No Standard Available
ND = Analyzed for but Not Detected at the MDL; () = The MDL for compounds that are non-detect
a Associated CCV outside of control limits low.
b Associated CCV outside of control limits high, sample was ND.
c Elevated detection limit due to dilution required for high interfering element.

Table 2 - Groundwater Results (cont'd) - SVOCs
78 Bridge Street
Tonawanda, New York

HK Engineering & Geology, D.P.C.
Project #: HK2550-1
Sample Date: 8/9/2021

Target Compounds	NYSDEC Ambient Water Quality Standards (AWQS)	TWP1		TWP3		TWP5	
Semivolatiles (µg/L)		**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**
2-Chlorophenol	**NS**	ND (0.80)		ND (0.80)		ND (0.80)	
4-Chloro-3-methyl phenol	**NS**	ND (0.87)		ND (0.87)		ND (0.87)	
1,1'-Biphenyl	**5**	ND (0.21)		ND (0.21)		ND (0.21)	
1,2,4,5-Tetrachlorobenzene	**5**	ND (0.36)		ND (0.36)		ND (0.36)	
1,4-Dioxane	**NS**	ND (0.64)		ND (0.64)		ND (0.64)	
2,2'-Oxybis(1-chloropropane)	**5**	ND (0.40)		ND (0.39)		ND (0.40)	
2,3,4,6-Tetrachlorophenol	**NS**	ND (1.4)		ND (1.4)		ND (1.4)	
2,4,5-Trichlorophenol	**NS**	ND (1.3)		ND (1.3)		ND (1.3)	
2,4,6-Trichlorophenol	**NS**	ND (0.91)		ND (0.90)		ND (0.91)	
2,4-Dichlorophenol	**1**	ND (1.2)		ND (1.2)		ND (1.2)	
2,4-Dimethylphenol	**1**	ND (2.4)		ND (2.4)		ND (2.4)	
2,4-Dinitrophenol	**1**	ND (1.5)		ND (1.5)		ND (1.5)	
2,4-Dinitrotoluene	**5**	ND (0.54)		ND (0.54)		ND (0.54)	
2,6-Dinitrotoluene	**5**	ND (0.47)		ND (0.46)		ND (0.47)	
2-Chloronaphthalene	**NS**	ND (0.23)		ND (0.23)		ND (0.23)	
2-Methylnaphthalene	**NS**	ND (0.21)		ND (0.20)		ND (0.21)	
2-Methylphenol	**NS**	ND (0.87)		ND (0.86)		ND (0.87)	
2-Nitroaniline	**5**	ND (0.27)		ND (0.27)		ND (0.27)	
2-Nitrophenol	**NS**	ND (0.94)		ND (0.93)		ND (0.94)	
3&4-Methylphenol	**NS**	ND (0.86)		ND (0.85)		ND (0.86)	
3,3'-Dichlorobenzidine	**5**	ND (0.50)		ND (0.49)		ND (0.50)	
3-Nitroaniline	**5**	ND (0.38)		ND (0.38)		ND (0.38)	
4,6-Dinitro-o-cresol	**NS**	ND (1.3)		ND (1.3)		ND (1.3)	
4-Bromophenyl phenyl ether	**NS**	ND (0.40)		ND (0.39)		ND (0.40)	
4-Chloroaniline	**5**	ND (0.33)		ND (0.33)		ND (0.33)	
4-Chlorophenyl phenyl ether	**NS**	ND (0.36)		ND (0.36)		ND (0.36)	
4-Nitroaniline	**5**	ND (0.43)		ND (0.43)		ND (0.43)	
4-Nitrophenol	**NS**	ND (1.1)		ND (1.1)		ND (1.1)	
Acenaphthene	**NS**	ND (0.19)		ND (0.19)		ND (0.19)	
Acenaphthylene	**NS**	ND (0.13)		ND (0.13)		ND (0.13)	
Acetophenone	**NS**	ND (0.20)		ND (0.20)		ND (0.20)	
Anthracene	**NS**	ND (0.21)		0.28		ND (0.21)	
Atrazine	**7.5**	ND (0.44)		ND (0.43)		ND (0.44)	
Benzaldehyde	**NS**	ND (0.28)		ND (0.28)		ND (0.28)	
Benzo(a)anthracene	**NS**	ND (0.20)		0.63		0.25	J
Benzo(a)pyrene	**ND**	ND (0.21)		**0.49 J**		ND (0.21)	
Benzo(b)fluoranthene	**NS**	ND (0.20)		0.57	J	ND (0.20)	
Benzo(g,h,i)perylene	**NS**	ND (0.33)		ND (0.33)		ND (0.33)	
Benzo(k)fluoranthene	**NS**	ND (0.20)		ND (0.20)		ND (0.20)	
bis(2-Chloroethoxy)methane	**5**	ND (0.27)		ND (0.27)		ND (0.27)	
bis(2-Chloroethyl)ether	**1**	ND (0.24)		ND (0.24)		ND (0.24)	
bis(2-Ethylhexyl)phthalate	**5**	2		1.7	J	ND (1.6)	
Butyl benzyl phthalate	**NS**	ND (0.45)		ND (0.44)		ND (0.45)	
Caprolactam	**NS**	ND (0.64)	b	ND (0.63)	b	ND (0.64)	b
Carbazole	**NS**	ND (0.22)		0.25	J	ND (0.22)	
Chrysene	**NS**	ND (0.17)		0.54	J	ND (0.17)	
Dibenzo(a,h)anthracene	**NS**	ND (0.32)		ND (0.32)		ND (0.32)	
Dibenzofuran	**NS**	ND (0.22)		ND (0.21)		ND (0.22)	
Diethyl phthalate	**NS**	5.9		2.1		0.43	J
Dimethyl phthalate	**NS**	ND (0.21)		ND (0.21)		ND (0.21)	
Di-n-butyl phthalate	**50**	ND (0.49)		ND (0.48)		ND (0.49)	
Di-n-octyl phthalate	**NS**	ND (0.23)		ND (0.23)		ND (0.23)	
Fluoranthene	**NS**	ND (0.17)		1.2		0.22	J
Fluorene	**NS**	ND (0.17)		ND (0.17)		ND (0.17)	
Hexachlorobenzene	**0.04**	ND (0.32)		ND (0.32)		ND (0.32)	
Hexachlorobutadiene	**0.5**	ND (0.48)		ND (0.48)		ND (0.48)	
Hexachlorocyclopentadiene	**5**	ND (2.7)		ND (2.7)		ND (2.7)	
Hexachloroethane	**5**	ND (0.38)		ND (0.38)		ND (0.38)	
Indeno(1,2,3-cd)pyrene	**NS**	ND (0.33)		ND (0.32)		ND (0.33)	
Isophorone	**NS**	ND (0.27)		ND (0.27)		ND (0.27)	
Naphthalene	**NS**	ND (0.23)		ND (0.23)		ND (0.23)	
Nitrobenzene	**0.4**	ND (0.63)		ND (0.62)		ND (0.63)	
N-Nitroso-di-n-propylamine	**NS**	ND (0.47)		ND (0.47)		ND (0.47)	
N-Nitrosodiphenylamine	**NS**	ND (0.22)		ND (0.22)		ND (0.22)	
Pentachlorophenol	**1**	ND (1.4)		ND (1.3)		ND (1.4)	
Phenanthrene	**NS**	ND (0.17)		1		ND (0.17)	
Phenol	**1**	ND (0.38)		ND (0.38)		ND (0.38)	
Pyrene	**NS**	ND (0.21)		0.91	J	ND (0.21)	
SVOC Total TICs	**NS**	720.4	J	554.9	J	419.7	J

Results in Blue Highlight displays exceedance above the NYSDEC Ambient Water Quality Standards (AWQS)
J = Estimated concentration detected at a value above the MDL for target compounds
NS = No Standard Available
ND = Analyzed for but Not Detected at the MDL; () = The MDL for compounds that are non-detect
a Associated CCV outside of control limits low.
b Associated CCV outside of control limits high, sample was ND.
c Elevated detection limit due to dilution required for high interfering element.

Table 2 - Groundwater Results (cont'd) - Pesticides, PCBs, General Chemistry
78 Bridge Street
Tonawanda, New York

HK Engineering & Geology, D.P.C.
Project #: HK2550-1
Sample Date: 8/9/2021

Target Compounds	NYSDEC Ambient Water Quality Standards (AWQS)	TWP1		TWP3		TWP5	
Pesticides (µg/L)		**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**
4,4'-DDD	**0.3**	ND (0.0029)		ND (0.0028)		ND (0.0029)	
4,4'-DDE	**0.2**	ND (0.0025)		ND (0.0025)		ND (0.0026)	
4,4'-DDT	**0.2**	ND (0.0034)		ND (0.0033)		ND (0.0035)	
Aldrin	**ND**	ND (0.0026)		ND (0.0025)		ND (0.0027)	
alpha-BHC	**0.01**	ND (0.0026)		ND (0.0025)		ND (0.0027)	
alpha-Chlordane	**NS**	ND (0.0025)		ND (0.0024)		ND (0.0025)	
beta-BHC	**0.04**	ND (0.0040)		ND (0.0039)		ND (0.0041)	
delta-BHC	**0.04**	ND (0.0033)		ND (0.0032)		ND (0.0034)	
Dieldrin	**0.004**	ND (0.0038)		ND (0.0037)		ND (0.0039)	
Endosulfan sulfate	**NS**	ND (0.0027)		ND (0.0026)		ND (0.0028)	
Endosulfan-I	**NS**	ND (0.0026)		ND (0.0026)		ND (0.0027)	
Endosulfan-II	**NS**	ND (0.0024)		ND (0.0024)		ND (0.0025)	
Endrin	**ND**	ND (0.0030)		ND (0.0029)		ND (0.0031)	
Endrin aldehyde	**5**	ND (0.0034)		ND (0.0033)		ND (0.0034)	
Endrin ketone	**5**	ND (0.0031)		ND (0.0030)		ND (0.0032)	
gamma-BHC (Lindane)	**0.05**	ND (0.0030)		ND (0.0029)		ND (0.0031)	
gamma-Chlordane	**NS**	ND (0.0021)		ND (0.0021)		ND (0.0022)	
Heptachlor	**0.04**	ND (0.0022)		ND (0.0022)		ND (0.0023)	
Heptachlor epoxide	**0.03**	ND (0.0030)		ND (0.0029)		ND (0.0031)	
Methoxychlor	**35**	ND (0.0034)		ND (0.0033)		ND (0.0034)	
Toxaphene	**0.06**	ND (0.082)		ND (0.079)		ND (0.084)	
PCBs (µg/L)		**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**
Aroclor 1016	**0.09**	ND (0.098)		ND (0.095)		ND (0.10)	
Aroclor 1221	**0.09**	ND (0.21)		ND (0.20)		ND (0.21)	
Aroclor 1232	**0.09**	ND (0.13)		ND (0.13)		ND (0.13)	
Aroclor 1242	**0.09**	ND (0.11)		ND (0.11)		ND (0.12)	
Aroclor 1248	**0.09**	ND (0.063)		ND (0.061)		ND (0.065)	
Aroclor 1254	**0.09**	ND (0.21)		ND (0.20)		ND (0.21)	
Aroclor 1260	**0.09**	ND (0.076)		ND (0.074)		ND (0.078)	
Aroclor 1268	**0.09**	ND (0.087)		ND (0.084)		ND (0.089)	
Aroclor 1262	**0.09**	ND (0.097)		ND (0.094)		ND (0.099)	
General Chemistry (µg/L)		**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**
Cyanide	**200**	<10		<10		<10	

Results in Blue Highlight displays exceedance above the NYSDEC Ambient Water Quality Standards (AWQS)
J = Estimated concentration detected at a value above the MDL for target compounds
NS = No Standard Available
ND = Analyzed for but Not Detected at the MDL; () = The MDL for compounds that are non-detect
a Associated CCV outside of control limits low.
b Associated CCV outside of control limits high, sample was ND.
c Elevated detection limit due to dilution required for high interfering element.

Table 2 - Groundwater Results (cont'd) - Metals
78 Bridge Street
Tonawanda, New York

HK Engineering & Geology, D.P.C.
Project #: HK2550-1
Sample Date: 8/9/2021

Target Compounds	NYSDEC Ambient Water Quality Standards (AWQS)	TWP1		TWP1 (Dissolved)		TWP3		TWP3 (Dissolved)		TWP5		TWP5 (Dissolved)	
Metals (µg/L)		Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q	Conc	Q
Aluminum	NS	27100		<200		13400		<200		135000		<200	
Antimony	3	<6.0		<6.0		<6.0		<6.0		<60		<6.0	
Arsenic	25	39.9	c	<3.0		50.4		8.4		167		3.2	
Barium	1000	<200		<200		326		<200		<2000		<200	
Beryllium	NS	2.4		<1.0		<1.0		<1.0		<10		<1.0	
Cadmium	5	<3.0		<3.0		<3.0		<3.0		<30		<3.0	
Calcium	NS	276000		122000		191000		119000		1080000		169000	
Chromium	50	101		<10		26.8		<10		358		<10	
Cobalt	NS	62.7		<50		<50		<50		<500		<50	
Copper	200	52.5		<10		27.6		<10		344		<10	
Iron	300	132000		2970		45100		268		387000		699	
Lead	25	70.1	c	<3.0		42.1		<3.0		601		<3.0	
Magnesium	NS	38600		16000		27800		10600		189000		20600	
Manganese	300	3290		386		1560		890		8630		1230	
Mercury	0.7	<1.2		<0.20		<0.60		<0.20		<1.2		<0.20	
Nickel	100	111		<10		40.6		<10		365		<10	
Potassium	NS	<10000		<10000		<10000		<10000		<100000		<10000	
Selenium	10	<10		<10		<10		<10		103		<10	
Silver	50	<10		<10		<10		<10		<100		<10	
Sodium	20000	12000		10200		<10000		<10000		116000		112000	
Thallium	NS	<10		<10		<10		<10		<100		<10	
Vanadium	NS	68.7		<50		<50		<50		<500		<50	
Zinc	NS	522		<20		198		22.7		2610		48.6	

Results in Blue Highlight displays exceedance above the NYSDEC Ambient Water Quality Standards (AWQS)
J = Estimated concentration detected at a value above the MDL for target compounds
NS = No Standard Available
ND = Analyzed for but Not Detected at the MDL; () = The MDL for compounds that are non-detect
a Associated CCV outside of control limits low.
b Associated CCV outside of control limits high, sample was ND.
c Elevated detection limit due to dilution required for high interfering element.

Table 2 - Groundwater Results (cont'd) - PFAS
78 Bridge Street
Tonawanda, New York

HK Engineering & Geology, D.P.C.
Project #: HK2550-1
Sample Date: 8/9/2021

Target Compounds	NYSDEC 2020 Drinking Water MCL	TWP1		TWP3		TWP5		PFAS - BLANK	
PFAS (ng/L)		Conc	Q	Conc	Q	Conc	Q	Conc	Q
Perfluorobutanoic acid	NS	378		2600		428		ND (1.9)	
Perfluoropentanoic acid	NS	1550		9690		1660		ND (0.96)	
Perfluorohexanoic acid	NS	1020		8600		1270		ND (0.96)	
Perfluoroheptanoic acid	NS	660		3980		846		ND (0.96)	
Perfluorooctanoic acid	10	**486**		**5550**		**478**		ND (0.96)	
Perfluorononanoic acid	NS	6		640		2.5		ND (0.96)	
Perfluorodecanoic acid	NS	ND (1.1)		9.8		0.97	J	ND (0.96)	
Perfluoroundecanoic acid	NS	ND (11)		12.4		ND (0.89)		ND (0.96)	
Perfluorododecanoic acid	NS	ND (11)		ND (0.93)		ND (0.89)		ND (0.96)	
Perfluorotridecanoic acid	NS	ND (11)		1.2	J	ND (0.89)		ND (0.96)	
Perfluorotetradecanoic acid	NS	ND (1.1)		ND (0.93)		ND (0.89)		ND (0.96)	
Perfluorobutanesulfonic acid	NS	90.9		2140		167		ND (0.96)	
Perfluorohexanesulfonic acid	NS	1220		44400		2590		ND (0.96)	
Perfluoroheptanesulfonic acid	NS	50.9		3590		83.4		ND (0.96)	
Perfluorooctanesulfonic acid	10	**411**		**26900**		**188**		ND (0.96)	
Perfluorodecanesulfonic acid	NS	ND (11)		2.7		ND (0.89)		ND (0.96)	
PFOSA	NS	ND (2.1)		14.9		ND (1.8)		ND (1.9)	
MeFOSAA	NS	ND (2.1)		ND (1.9)		ND (1.8)		ND (1.9)	
EtFOSAA	NS	ND (21)		ND (1.9)		ND (1.8)		ND (1.9)	
6:2 Fluorotelomer sulfonate	NS	2250		50900		2630		ND (1.9)	
8:2 Fluorotelomer sulfonate	NS	4.3	J	91.3		ND (1.8)		ND (1.9)	

Results in Blue Highlight displays exceedance above the NYSDEC Ambient Water Quality Standards (AWQS)
J = Estimated concentration detected at a value above the MDL for target compounds
NS = No Standard Available
ND = Analyzed for but Not Detected at the MDL; () = The MDL for compounds that are non-detect

Table 3 - Soil Vapor Results - VOCs
Timber Shore
78 Bridge Street, North Tonawanda, NY

HK Engineering & Geology, D.P.C.
Project #: HK-2550-1
Sample Date: 8/9/2021

Target Compounds	SV2		SV4		SV6	
Volatiles ($\mu g/m^3$)	**Conc**	**Q**	**Conc**	**Q**	**Conc**	**Q**
1,1,1-Trichloroethane	ND (0.71)		ND (0.36)		ND (0.18)	
1,1,2,2-Tetrachloroethane	ND (0.76)		ND (0.37)		ND (0.19)	
1,1,2-Trichloroethane	ND (0.65)		ND (0.33)		ND (0.16)	
1,1-Dichloroethane	ND (0.19)		ND (0.093)		ND (0.049)	
1,1-Dichloroethylene	ND (0.27)		0.79	J	ND (0.067)	
1,2,4-Trichlorobenzene	ND (2.6)		ND (1.3)		ND (0.66)	
1,2,4-Trimethylbenzene	27		1.7	J	30	
1,2-Dibromoethane	ND (0.55)		ND (0.28)		ND (0.14)	
1,2-Dichloroethane	ND (0.34)		ND (0.17)		ND (0.085)	
1,2-Dichloropropane	ND (0.36)		ND (0.18)		ND (0.088)	
1,3,5-Trimethylbenzene	8.8		4.8		8.4	
1,3-Butadiene	ND (0.40)		ND (0.20)		ND (0.10)	
1,4-Dioxane	ND (0.76)		14		ND (0.19)	
2,2,4-Trimethylpentane	ND (0.41)		145		ND (0.10)	
2-Chlorotoluene	ND (0.52)		5.7		ND (0.13)	
2-Hexanone	ND (0.61)		ND (0.30)		ND (0.15)	
3-Chloropropene	ND (0.50)		ND (0.25)		ND (0.13)	
4-Ethyltoluene	16		7.9		15	
Acetone	732		539		641	
Benzene	23		22		17	
Benzyl Chloride	ND (1.2)		ND (0.57)		ND (0.29)	
Bromodichloromethane	ND (0.74)		2.2		ND (0.18)	
Bromoethene	ND (0.38)		ND (0.19)		ND (0.096)	
Bromoform	ND (1.6)		29		ND (0.38)	
Bromomethane	ND (0.34)		ND (0.17)		ND (0.085)	
Carbon disulfide	377		32.7		18	
Carbon tetrachloride	ND (0.59)		ND (0.30)		ND (0.15)	
Chlorobenzene	ND (0.46)		28		ND (0.12)	
Chloroethane	ND (0.50)		ND (0.26)		ND (0.13)	
Chloroform	ND (0.39)		ND (0.20)		3.4	
Chloromethane	ND (0.13)		ND (0.064)		0.41	
cis-1,2-Dichloroethylene	ND (0.19)		1.2	J	ND (0.048)	
cis-1,3-Dichloropropene	ND (0.35)		ND (0.18)		ND (0.091)	
Cyclohexane	361		74.3		41.6	
Dibromochloromethane	ND (1.1)		7.2		ND (0.28)	
Dichlorodifluoromethane	2	J	2.1		1.6	
Ethanol	28.3		20.3		17	
Ethyl Acetate	ND (0.54)		ND (0.27)		ND (0.14)	
Ethylbenzene	14		52.1		6.9	
Freon 113	ND (0.52)		ND (0.26)		ND (0.13)	
Freon 114	ND (0.53)		ND (0.27)		ND (0.13)	
Heptane	496		152		66.8	
Hexachlorobutadiene	ND (1.9)		6.3		ND (0.49)	
Hexane	500		83.2		86.7	
Isopropyl Alcohol	3.2		ND (0.32)		ND (0.16)	
m,p-Xylene	73.4		43		27	
m-Dichlorobenzene	ND (0.46)		1.9		ND (0.11)	
Methyl ethyl ketone	68.4		25		27	
Methyl Isobutyl Ketone	ND (0.57)		ND (0.30)		ND (0.15)	
Methyl Tert Butyl Ether	ND (0.28)		ND (0.14)		ND (0.069)	
Methylene chloride	ND (0.20)		ND (0.10)		ND (0.052)	
Methylmethacrylate	ND (0.53)		55.7		ND (0.14)	
o-Dichlorobenzene	ND (0.52)		1.3		ND (0.13)	
o-Xylene	26		13		11	
p-Dichlorobenzene	ND (0.42)		1.4		ND (0.11)	
Propylene	ND (0.11)		ND (0.055)		ND (0.027)	
Styrene	ND (0.32)		1.7	J	0.72	J
Tertiary Butyl Alcohol	ND (0.17)		12		3.3	
Tetrachloroethylene	12		46		1.8	
Tetrahydrofuran	ND (0.59)		ND (0.29)		ND (0.15)	
Toluene	84		54.3		37	
trans-1,2-Dichloroethylene	ND (0.11)		ND (0.059)		ND (0.029)	
trans-1,3-Dichloropropene	ND (0.35)		ND (0.18)		ND (0.091)	
Trichloroethylene	ND (0.41)		39		ND (0.10)	
Trichlorofluoromethane	ND (0.62)		1.9		1.5	
Vinyl Acetate	ND (0.49)		ND (0.24)		ND (0.12)	
Vinyl chloride	ND (0.23)		ND (0.12)		ND (0.056)	
Xylenes (total)	99.5		56		38	

ND = Analyzed for but Not Detected at the MDL
() = The MDL for compounds that are non-detect
J = Estimated concentration detected at a value above the MDL

ATTACHMENT A

Soil Boring Logs

Soil Boring: SB1

Project:	HK-2550-1	Date Started:	8/9/2021	Permit No.:	Temporary	**See Figure 1**	
Client:	Timber Shore	Date Finished:	8/9/2021	Well Diameter:	1 Inch		
Location:	78 Bridge St.	Boring Depth:	15 Feet	Well Material:	PVC		
	Tonawanda, NY	GW Bore Depth:	-	Slot Size:	0.1		
Drilling Co.:	NW Environmental/Nate	Lat/Northing:	-	Depth to GW:	4.97'		
Rig Type:	Geoprobe 66DT	Long/Easting:	-	Screen Interval:	5'		
Sample Type:	Dual Tube - 5'	Surface Elev:	Not Surveyed	Riser Interval:	10'		
Geologist:	R. Powell	Install Method:	Direct Push	Flush/Stickup:	Stickup	*Location Sketch Map*	
				Development Method:	Bailer		

Depth (ft bgs)	Stratigraphy Depth (ft bgs)	Stratigraphy Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
SURFACE					
0	0-2'	Brown silty clay	0	36	
			0		**Sample S1A collected at 0-2'**
1			0		
			0		
2	2-4'	Gray clay	0		
			0		**Sample S1B collected at 2-4'**
3			0		
			0		
4	4-15'	Gray sand (fine)	0		**Wet at 4'**
			0		
5			0		
			0	32	**TWP1 installed here**
6			0		
			0		
7			0		
			0		
8			0		
			0		
9			0		
			0		
10			0		
			0	39	
11			0		
			0		
12			0		
			0		
13			0		
			0		
14			0		
			0		
15		Boring Terminated at 15'	0		

Soil Boring: SB2

Project:	HK-2550-1	Date Started:	8/9/2021	Permit No.:	-
Client:	Timber Shore	Date Finished:	8/9/2021	Well Diameter:	-
Location:	78 Bridge St.	Boring Depth:	10 Feet	Well Material:	-
	Tonawanda, NY	GW Bore Depth:	-	Slot Size:	-
Drilling Co.:	NW Environmental/Nate	Lat/Northing:	-	Depth to GW:	-
Rig Type:	Geoprobe 66DT	Long/Easting:	-	Screen Interval:	-
Sample Type:	Dual Tube - 5'	Surface Elev:	Not Surveyed	Riser Interval:	-
Geologist:	R. Powell	Install Method:	Direct Push	Flush/Stickup:	-
				Development Method:	-

See Figure 1

Location Sketch Map

Depth (ft bgs)	Stratigraphy Depth (ft bgs)	Stratigraphy Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
	SURFACE				
0	0-2.5'	Brown silty sand, trace red clay fragments	0	40	
			0		**Sample S2A collected at 0-2'**
1			0		
			0		**Sample S2B collected at 2-4'**
2			0		
	2.5-5'	Reddish brown clay	0		**SV2 installed to 2'**
3			0		
			0		
4			0		**Wet at 4'**
			0		
5	5-10'	Grayish brown silty sand	0	33	
			0		
6			0		
			0		
7			0		
			0		
8			0		
			0		
9			0		
			0		
10		Boring Terminated at 10'	0		

Soil Boring: SB3

Project:	HK-2550-1	Date Started:	8/9/2021	Permit No.:	Temporary	**See Figure 1**	
Client:	Timber Shore	Date Finished:	8/9/2021	Well Diameter:	1 Inch		
Location:	78 Bridge St.	Boring Depth:	10 Feet	Well Material:	PVC		
	Tonawanda, NY	GW Bore Depth:	-	Slot Size:	0.1		
Drilling Co.:	NW Environmental/Nate	Lat/Northing:	-	Depth to GW:	4.75'		
Rig Type:	Geoprobe 66DT	Long/Easting:	-	Screen Interval:	5'		
Sample Type:	Dual Tube - 5'	Surface Elev:	Not Surveyed	Riser Interval:	5'		
Geologist:	R. Powell	Install Method:	Direct Push	Flush/Stickup:	Stickup	*Location Sketch Map*	
				Development Method:	Bailer		

Depth (ft bgs)	Stratigraphy Depth (ft bgs)	Stratigraphy Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
SURFACE					
0	0-2.5'	Brown silty clay	0	42	
			0		**Sample S3A collected at 0-2'**
1			0		
			0		**Sample S3B collected at 2-4'**
2			0		
	2.5-5'	Reddish brown silty sand	0		
3			0		**TWP3 installed here**
			0		
4			0		
			0		**Wet at 5'**
5	5-10'	Grayish brown silty sand	0	36	
			0		
6			0		
			0		
7			0		
			0		
8			0		
			0		
9			0		
			0		
10		Boring Terminated at 10'	0		

Soil Boring: SB4

Project:	HK-2550-1	Date Started:	8/9/2021	Permit No.:	-
Client:	Timber Shore	Date Finished:	8/9/2021	Well Diameter:	-
Location:	78 Bridge St.	Boring Depth:	10 Feet	Well Material:	-
	Tonawanda, NY	GW Bore Depth:	-	Slot Size:	-
Drilling Co.:	NW Environmental/Nate	Lat/Northing:	-	Depth to GW:	5'
Rig Type:	Geoprobe 66DT	Long/Easting:	-	Screen Interval:	-
Sample Type:	Dual Tube - 5'	Surface Elev:	Not Surveyed	Riser Interval:	-
Geologist:	R. Powell	Install Method:	Direct Push	Flush/Stickup:	-
				Development Method:	-

See Figure 1

Location Sketch Map

Depth (ft bgs)	Stratigraphy Depth (ft bgs)	Stratigraphy Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
SURFACE					
0	0-5'	Dark brown sand (fine), gravel	0	22	
			0		**Sample S4A collected at 0-2'**
1			0		
			0		
2			0		**SV4 installed to 2'**
			0		
3			0		
			0		**Sample S4B collected at 3-5'**
4			0		
			0		
5	5-10'	Brown sand (fine)	0	35	**Wet at 5'**
			0		
6			0		
			0		
7			0		
			0		
8			0		
			0		
9			0		
			0		
10		Boring Terminated at 10'	0		

Soil Boring: SB5

Project:	HK-2550-1	Date Started:	8/9/2021	Permit No.:	Temporary
Client:	Timber Shore	Date Finished:	8/9/2021	Well Diameter:	1 Inch
Location:	78 Bridge St.	Boring Depth:	10 Feet	Well Material:	PVC
	Tonawanda, NY	GW Bore Depth:	-	Slot Size:	0.1
Drilling Co.:	NW Environmental/Nate	Lat/Northing:	-	Depth to GW:	5.5'
Rig Type:	Geoprobe 66DT	Long/Easting:	-	Screen Interval:	5'
Sample Type:	Dual Tube - 5'	Surface Elev:	Not Surveyed	Riser Interval:	5'
Geologist:	R. Powell	Install Method:	Direct Push	Flush/Stickup:	Stickup
				Development Method:	Bailer

See Figure 1

Location Sketch Map

Depth (ft bgs)	Stratigraphy Depth (ft bgs)	Stratigraphy Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
	SURFACE				
0	0-5'	Brown Sand (fine), gravel	0	31	
			0		**Sample S5A collected at 0-2'**
1			0		
			0		
2			0		**Sample S5B collected at 3-5'**
			0		
3			0		
			0		
4			0		
			0		**Wet at 5'**
5	5-10'	Brownish gray sand (fine)	0	35	
			0		**TWP5 installed here**
6			0		
			0		
7			0		
			0		
8			0		
			0		
9			0		
			0		
10		Boring Terminated at 10'	0		

Soil Boring: SB6

Project:	HK-2550-1	Date Started:	8/9/2021	Permit No.:	-
Client:	Timber Shore	Date Finished:	8/9/2021	Well Diameter:	-
Location:	78 Bridge St.	Boring Depth:	10 Feet	Well Material:	-
	Tonawanda, NY	GW Bore Depth:	-	Slot Size:	-
Drilling Co.:	NW Environmental/Nate	Lat/Northing:	-	Depth to GW:	5'
Rig Type:	Geoprobe 66DT	Long/Easting:	-	Screen Interval:	-
Sample Type:	Dual Tube - 5'	Surface Elev:	Not Surveyed	Riser Interval:	-
Geologist:	R. Powell	Install Method:	Direct Push	Flush/Stickup:	-
				Development Method:	-

See Figure 1

Location Sketch Map

Depth (ft bgs)	Stratigraphy Depth (ft bgs)	Stratigraphy Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
	SURFACE				
0	0-3.5'	Dark brown clay, gravel	0	33	
			0		**Sample S6A collected at 0-2'**
1			0		
			0		
2			0		
			0		**SV6 installed to 3'**
3			0		
	3.5-10'	Brown sand (coarse), gravel	0		**Sample S6B collected at 3-5'**
4			0		
			0		**Wet at 5'**
5			0	29	
			0		
6			0		
			0		
7			0		
			0		
8			0		
			0		
9			0		
			0		
10		Boring Terminated at 10'	0		

Soil Boring: SB7

Project:	HK-2550-1	Date Started:	8/9/2021	Permit No.:	-
Client:	Timber Shore	Date Finished:	8/9/2021	Well Diameter:	-
Location:	78 Bridge St.	Boring Depth:	10 Feet	Well Material:	-
	Tonawanda, NY	GW Bore Depth:	-	Slot Size:	-
Drilling Co.:	NW Environmental/Nate	Lat/Northing:	-	Depth to GW:	5'
Rig Type:	Geoprobe 66DT	Long/Easting:	-	Screen Interval:	-
Sample Type:	Dual Tube - 5'	Surface Elev:	Not Surveyed	Riser Interval:	-
Geologist:	R. Powell	Install Method:	Direct Push	Flush/Stickup:	-
				Development Method:	-

See Figure 1

Location Sketch Map

Depth (ft bgs)	Stratigraphy Depth (ft bgs)	Stratigraphy Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
SURFACE					
0	0-2.5'	Brown clay, gravel	0	37	
			0		**Sample S7A collected at 0-2'**
1			0		
			0		
2			0		
	2.5-5'	Brown sand (fine), gravel, trace clay	0		
3			0		
			1.9		**Sample S7B collected 3-5'**
4			0		
			0		**Wet at 5'**
5	5-10'	Brown sand (coarse), gravel	0	22	
			0		
6			0		
			0		
7			0		
			0		
8			0		
			0		
9			0		
			0		
10		Boring Terminated at 10'	0		

Soil Boring: SB8

Project:	HK-2550-1	Date Started:	8/9/2021	Permit No.:	-
Client:	Timber Shore	Date Finished:	8/9/2021	Well Diameter:	-
Location:	78 Bridge St.	Boring Depth:	5 Feet	Well Material:	-
	Tonawanda, NY	GW Bore Depth:	-	Slot Size:	-
Drilling Co.:	NW Environmental/Nate	Lat/Northing:	-	Depth to GW:	4'
Rig Type:	Geoprobe 66DT	Long/Easting:	-	Screen Interval:	-
Sample Type:	Dual Tube - 5'	Surface Elev:	Not Surveyed	Riser Interval:	-
Geologist:	R. Powell	Install Method:	Direct Push	Flush/Stickup:	-
				Development Method:	-

See Figure 1

Location Sketch Map

Depth (ft bgs)	Stratigraphy Depth (ft bgs)	Stratigraphy Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
	SURFACE				
0	0-3.75'	Brown silty sand, gravel	0	48	
			0		**Sample S8A collected at 0-2'**
1			0		
			0		
2			0		
	3.75-5'	Brownish gray clay	0		
3			0		
			0		
4			0		**Wet at 4'**
			0		
5		Boring Terminated at 5'	0		

Soil Boring: SB9

Project:	HK-2550-1	Date Started:	8/9/2021	Permit No.:	-
Client:	Timber Shore	Date Finished:	8/9/2021	Well Diameter:	-
Location:	78 Bridge St.	Boring Depth:	5 Feet	Well Material:	-
	Tonawanda, NY	GW Bore Depth:	-	Slot Size:	-
Drilling Co.:	NW Environmental/Nate	Lat/Northing:	-	Depth to GW:	Not Encountered
Rig Type:	Geoprobe 66DT	Long/Easting:	-	Screen Interval:	-
Sample Type:	Dual Tube - 5'	Surface Elev:	Not Surveyed	Riser Interval:	-
Geologist:	R. Powell	Install Method:	Direct Push	Flush/Stickup:	-
				Development Method:	-

See Figure 1

Location Sketch Map

Depth (ft bgs)	Stratigraphy Depth (ft bgs)	Stratigraphy Description	PID/OVM Reading (ppm)	Recovery (inches)	Comments
SURFACE					
0	0-1'	Light brown sand (fine), gravel	0	20	
			0		**Sample S9A collected at 0-2'**
1	1-2'	Light brown clayey sand	0		
			0		
2	2-5'	Brown clay	0		
			0		
3			0		
			0		
4			0		
			0		
5		Boring Terminated at 5'	0		

ATTACHMENT B

Analytical Laboratory Data Report

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

HK Engineering & Geology, DPC

HK2550, NY

PO#HK-2550-1

SGS Job Number: JD29690

Sampling Date: 08/09/21

Report to:

Hillmann Consulting, LLC
1600 Route 22 East Suite #107
Union, NJ 07083
chirschmann@hillmannconsulting.com; rpowell@hillmannconsulting.com

ATTN: Chris Hirschmann

Total number of pages in report: **186**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Kelly Ramos 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

Table of Contents

SGS North America Inc.

Sample Summary

HK Engineering & Geology, DPC

Job No: JD29690

HK2550, NY
Project No: PO#HK-2550-1

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
JD29690-1	08/09/21	09:20	RP	08/10/21	SO	Soil	S1A (0-2)
JD29690-2	08/09/21	09:30	RP	08/10/21	SO	Soil	S1B (2-4)
JD29690-3	08/09/21	10:30	RP	08/10/21	SO	Soil	S2A (0-2)
JD29690-4	08/09/21	10:40	RP	08/10/21	SO	Soil	S2B (2-4)
JD29690-5	08/09/21	11:10	RP	08/10/21	SO	Soil	S3A (0-2)
JD29690-6	08/09/21	11:20	RP	08/10/21	SO	Soil	S3B (2.5-4.5)
JD29690-7	08/09/21	12:00	RP	08/10/21	SO	Soil	S4A (0-2)
JD29690-8	08/09/21	12:10	RP	08/10/21	SO	Soil	S4B (3.5)
JD29690-9	08/09/21	13:10	RP	08/10/21	SO	Soil	S5A (0-2)
JD29690-10	08/09/21	13:15	RP	08/10/21	SO	Soil	S5B (3-5)
JD29690-11	08/09/21	14:00	RP	08/10/21	SO	Soil	S6A (0-2)
JD29690-12	08/09/21	14:05	RP	08/10/21	SO	Soil	S6B (3-5)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

HK Engineering & Geology, DPC

Job No: JD29690

HK2550, NY
Project No: PO#HK-2550-1

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD29690-13	08/09/21	14:30	RP	08/10/21	SO	Soil	S7A (0-2)
JD29690-14	08/09/21	14:35	RP	08/10/21	SO	Soil	S7B (3-5)
JD29690-15	08/09/21	15:30	RP	08/10/21	SO	Soil	S8A (0-2)
JD29690-16	08/09/21	15:50	RP	08/10/21	SO	Soil	S9A (0-2)
JD29690-17	08/09/21	10:20	RP	08/10/21	AQ	Ground Water	TWP1
JD29690-17F	08/09/21	10:20	RP	08/10/21	AQ	Groundwater Filtered	TWP1
JD29690-18	08/09/21	11:35	RP	08/10/21	AQ	Ground Water	TWP3
JD29690-18F	08/09/21	11:35	RP	08/10/21	AQ	Groundwater Filtered	TWP3
JD29690-19	08/09/21	13:15	RP	08/10/21	AQ	Ground Water	TWP5
JD29690-19F	08/09/21	13:15	RP	08/10/21	AQ	Groundwater Filtered	TWP5
JD29690-20	08/09/21	15:50	RP	08/10/21	AQ	Field Blank Water	PFAS-BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29690-1	**S1A (0-2)**					
Toluene		0.72 J	1.0	0.54	ug/kg	SW846 8260D
Benzo(a)anthracene		16.4 J	35	9.8	ug/kg	SW846 8270E
Benzo(a)pyrene		22.1 J	35	16	ug/kg	SW846 8270E
Benzo(b)fluoranthene		22.5 J	35	15	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		55.4	35	17	ug/kg	SW846 8270E
Chrysene		42.0	35	11	ug/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		26.8 J	69	8.1	ug/kg	SW846 8270E
Fluoranthene		23.2 J	35	15	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		30.5 J	35	16	ug/kg	SW846 8270E
Phenanthrene		20.4 J	35	12	ug/kg	SW846 8270E
Pyrene		21.7 J	35	11	ug/kg	SW846 8270E
Total TIC, Semi-Volatile		1430 J			ug/kg	
Aluminum		7960	56		mg/kg	SW846 6010D
Arsenic		3.1	2.2		mg/kg	SW846 6010D
Barium		66.4	22		mg/kg	SW846 6010D
Calcium		99500	2800		mg/kg	SW846 6010D
Chromium		9.6	1.1		mg/kg	SW846 6010D
Copper		11.8	2.8		mg/kg	SW846 6010D
Iron		12400	56		mg/kg	SW846 6010D
Lead		12.1	2.2		mg/kg	SW846 6010D
Magnesium		29100	560		mg/kg	SW846 6010D
Manganese		666	1.7		mg/kg	SW846 6010D
Nickel		12.1	4.5		mg/kg	SW846 6010D
Potassium		1890	1100		mg/kg	SW846 6010D
Vanadium		14.9	5.6		mg/kg	SW846 6010D
Zinc		66.4	5.6		mg/kg	SW846 6010D
JD29690-2	**S1B (2-4)**					
Acetone		26.0	11	4.7	ug/kg	SW846 8260D
Toluene		1.2	1.1	0.60	ug/kg	SW846 8260D
Perfluoropentanoic acid [a]		0.67	0.62	0.31	ug/kg	EPA 537M BY ID
Perfluorohexanoic acid [a]		0.47 J	0.62	0.31	ug/kg	EPA 537M BY ID
Perfluoroheptanoic acid [a]		0.36 J	0.62	0.31	ug/kg	EPA 537M BY ID
Perfluorooctanoic acid [a]		0.55 J	0.62	0.31	ug/kg	EPA 537M BY ID
Perfluorohexanesulfonic acid [a]		1.2	0.62	0.31	ug/kg	EPA 537M BY ID
Perfluorooctanesulfonic acid [a]		3.0	0.62	0.31	ug/kg	EPA 537M BY ID
6:2 Fluorotelomer sulfonate [a]		4.4	1.2	0.31	ug/kg	EPA 537M BY ID
Total TIC, Semi-Volatile		670 J			ug/kg	
Aluminum		11000	64		mg/kg	SW846 6010D
Arsenic		3.4	2.5		mg/kg	SW846 6010D
Barium		66.0	25		mg/kg	SW846 6010D
Beryllium		0.60	0.25		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Calcium		7210	640		mg/kg	SW846 6010D
Chromium		14.2	1.3		mg/kg	SW846 6010D
Cobalt		8.9	6.4		mg/kg	SW846 6010D
Copper		13.5	3.2		mg/kg	SW846 6010D
Iron		17400	64		mg/kg	SW846 6010D
Lead		11.7	2.5		mg/kg	SW846 6010D
Magnesium		4540	640		mg/kg	SW846 6010D
Manganese		180	1.9		mg/kg	SW846 6010D
Nickel		18.8	5.1		mg/kg	SW846 6010D
Vanadium		20.8	6.4		mg/kg	SW846 6010D
Zinc		72.5	6.4		mg/kg	SW846 6010D
JD29690-4	**S2B (2-4)**					
Toluene		1.3	1.2	0.63	ug/kg	SW846 8260D
Perfluoropentanoic acid [a]		0.75	0.60	0.30	ug/kg	EPA 537M BY ID
Perfluorohexanoic acid [a]		0.53 J	0.60	0.30	ug/kg	EPA 537M BY ID
Perfluoroheptanoic acid [a]		0.47 J	0.60	0.30	ug/kg	EPA 537M BY ID
Perfluorooctanoic acid [a]		0.86	0.60	0.30	ug/kg	EPA 537M BY ID
Perfluorohexanesulfonic acid [a]		1.0	0.60	0.30	ug/kg	EPA 537M BY ID
Perfluorooctanesulfonic acid [a]		1.8	0.60	0.30	ug/kg	EPA 537M BY ID
Aluminum		9060	62		mg/kg	SW846 6010D
Arsenic		6.3	2.5		mg/kg	SW846 6010D
Barium		52.7	25		mg/kg	SW846 6010D
Beryllium		0.55	0.25		mg/kg	SW846 6010D
Calcium		2870	620		mg/kg	SW846 6010D
Chromium		12.3	1.2		mg/kg	SW846 6010D
Cobalt		7.5	6.2		mg/kg	SW846 6010D
Copper		12.9	3.1		mg/kg	SW846 6010D
Iron		22000	62		mg/kg	SW846 6010D
Lead		10.1	2.5		mg/kg	SW846 6010D
Magnesium		2740	620		mg/kg	SW846 6010D
Manganese		194	1.8		mg/kg	SW846 6010D
Nickel		17.6	4.9		mg/kg	SW846 6010D
Vanadium		19.7	6.2		mg/kg	SW846 6010D
Zinc		59.3	6.2		mg/kg	SW846 6010D
JD29690-5	**S3A (0-2)**					
Acetone		6.0 J	11	4.5	ug/kg	SW846 8260D
Carbon disulfide		1.9 J	2.2	0.58	ug/kg	SW846 8260D
Toluene		0.94 J	1.1	0.57	ug/kg	SW846 8260D
Acenaphthene		1330	38	13	ug/kg	SW846 8270E
Acenaphthylene		42.7	38	19	ug/kg	SW846 8270E
Anthracene		3620	190	120	ug/kg	SW846 8270E

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Benzo(a)anthracene	8190	190	53	ug/kg	SW846 8270E
Benzo(a)pyrene	6110	190	86	ug/kg	SW846 8270E
Benzo(b)fluoranthene	7460	190	83	ug/kg	SW846 8270E
Benzo(g,h,i)perylene	1880	38	19	ug/kg	SW846 8270E
Benzo(k)fluoranthene	2900	38	18	ug/kg	SW846 8270E
1,1'-Biphenyl	147	75	5.2	ug/kg	SW846 8270E
Carbazole	1520	75	5.5	ug/kg	SW846 8270E
Chrysene	7500	190	59	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene	638	38	17	ug/kg	SW846 8270E
Dibenzofuran	1050	75	15	ug/kg	SW846 8270E
Fluoranthene	17800	190	84	ug/kg	SW846 8270E
Fluorene	1410	38	17	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene	2510	38	18	ug/kg	SW846 8270E
2-Methylnaphthalene	252	38	8.5	ug/kg	SW846 8270E
Naphthalene	256	38	11	ug/kg	SW846 8270E
Phenanthrene	15700	190	63	ug/kg	SW846 8270E
Pyrene	15200	190	60	ug/kg	SW846 8270E
Total TIC, Semi-Volatile	18740 J			ug/kg	
Aluminum	11900	58		mg/kg	SW846 6010D
Arsenic	10.3	2.3		mg/kg	SW846 6010D
Barium	265	23		mg/kg	SW846 6010D
Beryllium [b]	1.2	1.2		mg/kg	SW846 6010D
Cadmium	0.72	0.58		mg/kg	SW846 6010D
Calcium	113000	2900		mg/kg	SW846 6010D
Chromium	15.5	1.2		mg/kg	SW846 6010D
Cobalt	6.5	5.8		mg/kg	SW846 6010D
Copper	24.4	2.9		mg/kg	SW846 6010D
Iron	17700	58		mg/kg	SW846 6010D
Lead	131	2.3		mg/kg	SW846 6010D
Magnesium	10800	580		mg/kg	SW846 6010D
Manganese	803	1.8		mg/kg	SW846 6010D
Nickel	16.5	4.7		mg/kg	SW846 6010D
Potassium	1650	1200		mg/kg	SW846 6010D
Vanadium	18.0	5.8		mg/kg	SW846 6010D
Zinc	97.6	5.8		mg/kg	SW846 6010D
Cyanide	0.67	0.27		mg/kg	SW846 9012B/LACHAT
JD29690-6 S3B (2.5-4.5)					
Acetone	55.5	10	4.3	ug/kg	SW846 8260D
2-Butanone (MEK)	10.3	10	2.5	ug/kg	SW846 8260D
Toluene	1.1	1.0	0.55	ug/kg	SW846 8260D
Acenaphthene	25.6 J	38	13	ug/kg	SW846 8270E
Acenaphthylene	33.6 J	38	19	ug/kg	SW846 8270E
Anthracene	87.8	38	23	ug/kg	SW846 8270E

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(a)anthracene		402	38	11	ug/kg	SW846 8270E
Benzo(a)pyrene		347	38	17	ug/kg	SW846 8270E
Benzo(b)fluoranthene		442	38	17	ug/kg	SW846 8270E
Benzo(g,h,i)perylene		205	38	19	ug/kg	SW846 8270E
Benzo(k)fluoranthene		168	38	18	ug/kg	SW846 8270E
1,1'-Biphenyl		7.0 J	77	5.2	ug/kg	SW846 8270E
Carbazole		46.1 J	77	5.6	ug/kg	SW846 8270E
Chrysene		461	38	12	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene		58.4	38	17	ug/kg	SW846 8270E
Dibenzofuran		27.3 J	77	16	ug/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate		15.2 J	77	9.0	ug/kg	SW846 8270E
Fluoranthene		857	38	17	ug/kg	SW846 8270E
Fluorene		32.6 J	38	18	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene		236	38	18	ug/kg	SW846 8270E
2-Methylnaphthalene		26.4 J	38	8.7	ug/kg	SW846 8270E
Naphthalene		53.0	38	11	ug/kg	SW846 8270E
Phenanthrene		438	38	13	ug/kg	SW846 8270E
Pyrene		717	38	12	ug/kg	SW846 8270E
Total TIC, Semi-Volatile		1240 J			ug/kg	
4,4'-DDE [c]		7.1	0.76	0.66	ug/kg	SW846 8081B
4,4'-DDT [c]		4.6	0.76	0.67	ug/kg	SW846 8081B
Aluminum		5970	60		mg/kg	SW846 6010D
Arsenic		3.8	2.4		mg/kg	SW846 6010D
Barium		45.0	24		mg/kg	SW846 6010D
Beryllium		0.37	0.24		mg/kg	SW846 6010D
Calcium		19900	600		mg/kg	SW846 6010D
Chromium		8.5	1.2		mg/kg	SW846 6010D
Copper		15.8	3.0		mg/kg	SW846 6010D
Iron		12600	60		mg/kg	SW846 6010D
Lead		30.2	2.4		mg/kg	SW846 6010D
Magnesium		7410	600		mg/kg	SW846 6010D
Manganese		225	1.8		mg/kg	SW846 6010D
Mercury		0.046	0.036		mg/kg	SW846 7471B
Nickel		11.9	4.8		mg/kg	SW846 6010D
Vanadium		14.8	6.0		mg/kg	SW846 6010D
Zinc		67.4	6.0		mg/kg	SW846 6010D
JD29690-8	**S4B (3.5)**					
Acetone		9.0 J	11	4.7	ug/kg	SW846 8260D
Toluene		1.0 J	1.1	0.59	ug/kg	SW846 8260D
Acenaphthene		330	35	12	ug/kg	SW846 8270E
Acenaphthylene		30.1 J	35	18	ug/kg	SW846 8270E
Anthracene		976	35	22	ug/kg	SW846 8270E
Benzo(a)anthracene		2740	35	10	ug/kg	SW846 8270E

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Benzo(a)pyrene	2420	35	16	ug/kg	SW846 8270E
Benzo(b)fluoranthene	3230	35	16	ug/kg	SW846 8270E
Benzo(g,h,i)perylene	685	35	18	ug/kg	SW846 8270E
Benzo(k)fluoranthene	1100	35	17	ug/kg	SW846 8270E
1,1'-Biphenyl	32.6 J	71	4.9	ug/kg	SW846 8270E
Carbazole	496	71	5.1	ug/kg	SW846 8270E
Chrysene	2550	35	11	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene	236	35	16	ug/kg	SW846 8270E
Dibenzofuran	192	71	14	ug/kg	SW846 8270E
Fluoranthene	4400	180	79	ug/kg	SW846 8270E
Fluorene	337	35	16	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene	894	35	17	ug/kg	SW846 8270E
2-Methylnaphthalene	96.8	35	8.0	ug/kg	SW846 8270E
Naphthalene	198	35	10	ug/kg	SW846 8270E
Phenanthrene	3150	180	60	ug/kg	SW846 8270E
Pyrene	3910	180	57	ug/kg	SW846 8270E
Total TIC, Semi-Volatile	9420 J			ug/kg	
Aluminum	10900	56		mg/kg	SW846 6010D
Arsenic	11.0	2.2		mg/kg	SW846 6010D
Barium	98.7	22		mg/kg	SW846 6010D
Calcium	82000	2800		mg/kg	SW846 6010D
Chromium	15.8	1.1		mg/kg	SW846 6010D
Copper	18.6	2.8		mg/kg	SW846 6010D
Iron	16200	56		mg/kg	SW846 6010D
Lead	176	2.2		mg/kg	SW846 6010D
Magnesium	5160	560		mg/kg	SW846 6010D
Manganese	483	1.7		mg/kg	SW846 6010D
Mercury	0.49	0.034		mg/kg	SW846 7471B
Nickel	14.5	4.5		mg/kg	SW846 6010D
Potassium	1310	1100		mg/kg	SW846 6010D
Vanadium	17.4	5.6		mg/kg	SW846 6010D
Zinc	64.5	5.6		mg/kg	SW846 6010D
Cyanide	0.86	0.25		mg/kg	SW846 9012B/LACHAT
JD29690-10 S5B (3-5)					
Acetone	92.7	12	5.1	ug/kg	SW846 8260D
2-Butanone (MEK)	100	12	3.0	ug/kg	SW846 8260D
Carbon disulfide	1.2 J	2.5	0.66	ug/kg	SW846 8260D
Toluene	2.0	1.2	0.65	ug/kg	SW846 8260D
Benzo(a)anthracene	47.5	40	11	ug/kg	SW846 8270E
Benzo(a)pyrene	39.9 J	40	18	ug/kg	SW846 8270E
Benzo(b)fluoranthene	45.8	40	18	ug/kg	SW846 8270E
Benzo(g,h,i)perylene	30.1 J	40	20	ug/kg	SW846 8270E
Benzaldehyde	65.3 J	200	9.8	ug/kg	SW846 8270E

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Chrysene	44.9	40	12	ug/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate	51.8 J	79	9.3	ug/kg	SW846 8270E
Fluoranthene	74.6	40	18	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene	31.9 J	40	19	ug/kg	SW846 8270E
2-Methylnaphthalene	9.9 J	40	9.0	ug/kg	SW846 8270E
Naphthalene	18.4 J	40	11	ug/kg	SW846 8270E
Phenanthrene	38.8 J	40	13	ug/kg	SW846 8270E
Pyrene	54.6	40	13	ug/kg	SW846 8270E
Total TIC, Semi-Volatile	48780 J			ug/kg	
4,4'-DDT [c]	0.78 J	0.79	0.70	ug/kg	SW846 8081B
Aluminum	7410	63		mg/kg	SW846 6010D
Arsenic	7.9	2.5		mg/kg	SW846 6010D
Barium	55.3	25		mg/kg	SW846 6010D
Calcium	41700	3100		mg/kg	SW846 6010D
Chromium	9.9	1.3		mg/kg	SW846 6010D
Copper	14.3	3.1		mg/kg	SW846 6010D
Iron	17400	63		mg/kg	SW846 6010D
Lead	40.1	2.5		mg/kg	SW846 6010D
Magnesium	9850	630		mg/kg	SW846 6010D
Manganese	393	1.9		mg/kg	SW846 6010D
Nickel	14.2	5.0		mg/kg	SW846 6010D
Potassium	1380	1300		mg/kg	SW846 6010D
Silver	0.71	0.63		mg/kg	SW846 6010D
Vanadium	13.9	6.3		mg/kg	SW846 6010D
Zinc	86.3	6.3		mg/kg	SW846 6010D
Cyanide	0.90	0.25		mg/kg	SW846 9012B/LACHAT
JD29690-12 S6B (3-5)					
Acetone	73.0	15	6.4	ug/kg	SW846 8260D
2-Butanone (MEK)	13.6 J	15	3.8	ug/kg	SW846 8260D
Toluene	5.5	1.5	0.81	ug/kg	SW846 8260D
3&4-Methylphenol [d]	74.3 J	160	66	ug/kg	SW846 8270E
Acenaphthene [d]	1720	80	28	ug/kg	SW846 8270E
Acenaphthylene [d]	86.2	80	41	ug/kg	SW846 8270E
Anthracene [d]	5350	80	49	ug/kg	SW846 8270E
Benzo(a)anthracene	11700	800	230	ug/kg	SW846 8270E
Benzo(a)pyrene	8870	800	370	ug/kg	SW846 8270E
Benzo(b)fluoranthene	10300	800	350	ug/kg	SW846 8270E
Benzo(g,h,i)perylene [d]	4100	80	40	ug/kg	SW846 8270E
Benzo(k)fluoranthene [d]	5210	80	37	ug/kg	SW846 8270E
1,1'-Biphenyl [d]	128 J	160	11	ug/kg	SW846 8270E
Carbazole [d]	1750	160	12	ug/kg	SW846 8270E
Chrysene	10800	800	250	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene [d]	1950	80	35	ug/kg	SW846 8270E

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Dibenzofuran [d]		1040	160	33	ug/kg	SW846 8270E
Fluoranthene		22400	800	360	ug/kg	SW846 8270E
Fluorene [d]		1900	80	37	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene [d]		4960	80	38	ug/kg	SW846 8270E
2-Methylnaphthalene [d]		507	80	18	ug/kg	SW846 8270E
Naphthalene [d]		1170	80	23	ug/kg	SW846 8270E
Phenanthrene		16900	800	270	ug/kg	SW846 8270E
Pyrene		20900	800	260	ug/kg	SW846 8270E
Total TIC, Semi-Volatile		44450 J			ug/kg	
4,4'-DDT [c]		6.8	0.79	0.70	ug/kg	SW846 8081B
Methoxychlor		19.6	1.6	0.63	ug/kg	SW846 8081B
Aluminum		9070	61		mg/kg	SW846 6010D
Arsenic		9.1	2.4		mg/kg	SW846 6010D
Barium		86.4	24		mg/kg	SW846 6010D
Cadmium		0.63	0.61		mg/kg	SW846 6010D
Calcium		71600	3000		mg/kg	SW846 6010D
Chromium		11.8	1.2		mg/kg	SW846 6010D
Copper		23.3	3.0		mg/kg	SW846 6010D
Iron		14400	61		mg/kg	SW846 6010D
Lead		241	2.4		mg/kg	SW846 6010D
Magnesium		8980	610		mg/kg	SW846 6010D
Manganese		516	1.8		mg/kg	SW846 6010D
Mercury		0.82	0.035		mg/kg	SW846 7471B
Nickel		14.4	4.8		mg/kg	SW846 6010D
Vanadium		17.2	6.1		mg/kg	SW846 6010D
Zinc		80.4	6.1		mg/kg	SW846 6010D
Cyanide		0.46	0.29		mg/kg	SW846 9012B/LACHAT
JD29690-14	**S7B (3-5)**					
Acetone		15.6	13	5.2	ug/kg	SW846 8260D
Benzene		0.64	0.63	0.57	ug/kg	SW846 8260D
Carbon disulfide		1.2 J	2.5	0.67	ug/kg	SW846 8260D
Ethylbenzene		3.5	1.3	0.57	ug/kg	SW846 8260D
Styrene		0.90 J	2.5	0.50	ug/kg	SW846 8260D
Toluene		2.4	1.3	0.66	ug/kg	SW846 8260D
m,p-Xylene		2.5	1.3	1.1	ug/kg	SW846 8260D
o-Xylene		2.2	1.3	0.57	ug/kg	SW846 8260D
Xylene (total)		4.7	1.3	0.57	ug/kg	SW846 8260D
Total TIC, Volatile		1041.6 J			ug/kg	
2-Methylphenol [d]		140 J	320	100	ug/kg	SW846 8270E
3&4-Methylphenol [d]		399	320	130	ug/kg	SW846 8270E
Phenol [d]		185 J	320	83	ug/kg	SW846 8270E
Acenaphthene		22600	1600	550	ug/kg	SW846 8270E
Acenaphthylene [d]		680	160	81	ug/kg	SW846 8270E

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Anthracene	65400	1600	980	ug/kg	SW846 8270E
Benzo(a)anthracene	101000	1600	450	ug/kg	SW846 8270E
Benzo(a)pyrene	74500	1600	730	ug/kg	SW846 8270E
Benzo(b)fluoranthene	88300	1600	700	ug/kg	SW846 8270E
Benzo(g,h,i)perylene [d]	14800	160	80	ug/kg	SW846 8270E
Benzo(k)fluoranthene	37600	1600	740	ug/kg	SW846 8270E
1,1'-Biphenyl [d]	2440	320	22	ug/kg	SW846 8270E
Carbazole	16600	3200	230	ug/kg	SW846 8270E
Chrysene	89100	1600	500	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene	7950	1600	700	ug/kg	SW846 8270E
Dibenzofuran	18200	3200	650	ug/kg	SW846 8270E
Fluoranthene	185000	16000	7100	ug/kg	SW846 8270E
Fluorene	30500	1600	730	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene	38600	1600	750	ug/kg	SW846 8270E
2-Methylnaphthalene [d]	8360	160	36	ug/kg	SW846 8270E
Naphthalene [d]	13200	160	45	ug/kg	SW846 8270E
Phenanthrene	202000	16000	5400	ug/kg	SW846 8270E
Pyrene	178000	16000	5100	ug/kg	SW846 8270E
Total TIC, Semi-Volatile	69450 J			ug/kg	
gamma-BHC (Lindane) [c]	8.7	0.75	0.55	ug/kg	SW846 8081B
gamma-Chlordane [c]	68.8	0.75	0.34	ug/kg	SW846 8081B
4,4'-DDD	48.6	0.75	0.69	ug/kg	SW846 8081B
4,4'-DDE [c]	9.6	0.75	0.66	ug/kg	SW846 8081B
Aluminum	11000	61		mg/kg	SW846 6010D
Arsenic	12.8	2.4		mg/kg	SW846 6010D
Barium	188	24		mg/kg	SW846 6010D
Beryllium [b]	1.3	1.2		mg/kg	SW846 6010D
Cadmium	0.89	0.61		mg/kg	SW846 6010D
Calcium	70100	3000		mg/kg	SW846 6010D
Chromium	16.0	1.2		mg/kg	SW846 6010D
Copper	34.5	3.0		mg/kg	SW846 6010D
Iron	16700	61		mg/kg	SW846 6010D
Lead	344	2.4		mg/kg	SW846 6010D
Magnesium	4760	610		mg/kg	SW846 6010D
Manganese	562	1.8		mg/kg	SW846 6010D
Nickel	16.3	4.9		mg/kg	SW846 6010D
Vanadium	17.5	6.1		mg/kg	SW846 6010D
Zinc	228	6.1		mg/kg	SW846 6010D
Cyanide	1.0	0.24		mg/kg	SW846 9012B/LACHAT
JD29690-15 S8A (0-2)					
Acetone	19.9	13	5.2	ug/kg	SW846 8260D
Toluene	1.0 J	1.3	0.66	ug/kg	SW846 8260D
Total TIC, Volatile	237 J			ug/kg	

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Acenaphthene	517	37	13	ug/kg	SW846 8270E
Acenaphthylene	22.2 J	37	19	ug/kg	SW846 8270E
Anthracene	1400	37	22	ug/kg	SW846 8270E
Benzo(a)anthracene	3700	180	52	ug/kg	SW846 8270E
Benzo(a)pyrene	3440	37	17	ug/kg	SW846 8270E
Benzo(b)fluoranthene	3300	180	81	ug/kg	SW846 8270E
Benzo(g,h,i)perylene	1370	37	18	ug/kg	SW846 8270E
Benzo(k)fluoranthene	1480	37	17	ug/kg	SW846 8270E
1,1'-Biphenyl	29.2 J	73	5.0	ug/kg	SW846 8270E
Benzaldehyde	31.0 J	180	9.1	ug/kg	SW846 8270E
Carbazole	565	73	5.3	ug/kg	SW846 8270E
Chrysene	3550	37	12	ug/kg	SW846 8270E
Dibenzo(a,h)anthracene	480	37	16	ug/kg	SW846 8270E
Dibenzofuran	257	73	15	ug/kg	SW846 8270E
bis(2-Ethylhexyl)phthalate	47.2 J	73	8.5	ug/kg	SW846 8270E
Fluoranthene	6900	180	81	ug/kg	SW846 8270E
Fluorene	469	37	17	ug/kg	SW846 8270E
Indeno(1,2,3-cd)pyrene	1840	37	17	ug/kg	SW846 8270E
2-Methylnaphthalene	99.5	37	8.3	ug/kg	SW846 8270E
Naphthalene	173	37	10	ug/kg	SW846 8270E
Phenanthrene	4820	180	61	ug/kg	SW846 8270E
Pyrene	6490	180	58	ug/kg	SW846 8270E
Total TIC, Semi-Volatile	16790 J			ug/kg	
Aluminum	10100	57		mg/kg	SW846 6010D
Arsenic	6.3	2.3		mg/kg	SW846 6010D
Barium	79.3	23		mg/kg	SW846 6010D
Calcium	54700	2900		mg/kg	SW846 6010D
Chromium	13.8	1.1		mg/kg	SW846 6010D
Cobalt	6.7	5.7		mg/kg	SW846 6010D
Copper	23.8	2.9		mg/kg	SW846 6010D
Iron	15600	57		mg/kg	SW846 6010D
Lead	67.8	2.3		mg/kg	SW846 6010D
Magnesium	14500	570		mg/kg	SW846 6010D
Manganese	558	1.7		mg/kg	SW846 6010D
Nickel	17.3	4.6		mg/kg	SW846 6010D
Potassium	1710	1100		mg/kg	SW846 6010D
Silver	0.77	0.57		mg/kg	SW846 6010D
Vanadium	18.5	5.7		mg/kg	SW846 6010D
Zinc	81.0	5.7		mg/kg	SW846 6010D
Cyanide	0.29	0.24		mg/kg	SW846 9012B/LACHAT
JD29690-17 TWP1					
Perfluorobutanoic acid [e]	378	4.3	2.1	ng/l	EPA 537M BY ID
Perfluoropentanoic acid [f]	1550	21	11	ng/l	EPA 537M BY ID

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Perfluorohexanoic acid [f]	1020	21	11	ng/l	EPA 537M BY ID
Perfluoroheptanoic acid [f]	660	21	11	ng/l	EPA 537M BY ID
Perfluorooctanoic acid [f]	486	21	11	ng/l	EPA 537M BY ID
Perfluorononanoic acid [e]	6.0	2.1	1.1	ng/l	EPA 537M BY ID
Perfluorobutanesulfonic acid [e]	90.9	2.1	1.1	ng/l	EPA 537M BY ID
Perfluorohexanesulfonic acid [f]	1220	21	11	ng/l	EPA 537M BY ID
Perfluoroheptanesulfonic acid [e]	50.9	2.1	1.1	ng/l	EPA 537M BY ID
Perfluorooctanesulfonic acid [e]	411	2.1	1.1	ng/l	EPA 537M BY ID
6:2 Fluorotelomer sulfonate [a]	2250	860	210	ng/l	EPA 537M BY ID
8:2 Fluorotelomer sulfonate [e]	4.3 J	8.6	2.1	ng/l	EPA 537M BY ID
Diethyl phthalate	5.9	2.0	0.26	ug/l	SW846 8270E
bis(2-Ethylhexyl)phthalate	2.0	2.0	1.6	ug/l	SW846 8270E
Total TIC, Semi-Volatile	720.4 J			ug/l	
Aluminum	27100	200		ug/l	SW846 6010D
Arsenic [b]	39.9	6.0		ug/l	SW846 6010D
Beryllium	2.4	1.0		ug/l	SW846 6010D
Calcium	276000	10000		ug/l	SW846 6010D
Chromium	101	10		ug/l	SW846 6010D
Cobalt	62.7	50		ug/l	SW846 6010D
Copper	52.5	10		ug/l	SW846 6010D
Iron	132000	100		ug/l	SW846 6010D
Lead [b]	70.1	6.0		ug/l	SW846 6010D
Magnesium	38600	5000		ug/l	SW846 6010D
Manganese	3290	15		ug/l	SW846 6010D
Nickel	111	10		ug/l	SW846 6010D
Sodium	12000	10000		ug/l	SW846 6010D
Vanadium	68.7	50		ug/l	SW846 6010D
Zinc	522	20		ug/l	SW846 6010D
JD29690-17F TWP1					
Calcium	122000	5000		ug/l	SW846 6010D
Iron	2970	100		ug/l	SW846 6010D
Magnesium	16000	5000		ug/l	SW846 6010D
Manganese	386	15		ug/l	SW846 6010D
Sodium	10200	10000		ug/l	SW846 6010D
JD29690-18 TWP3					
Benzene	0.51	0.50	0.43	ug/l	SW846 8260D
cis-1,2-Dichloroethene	2.4	1.0	0.51	ug/l	SW846 8260D
Methyl Tert Butyl Ether	0.60 J	1.0	0.51	ug/l	SW846 8260D
Perfluorobutanoic acid [a]	2600	37	19	ng/l	EPA 537M BY ID
Perfluoropentanoic acid [a]	9690	370	190	ng/l	EPA 537M BY ID
Perfluorohexanoic acid [a]	8600	370	190	ng/l	EPA 537M BY ID

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Perfluoroheptanoic acid [a]		3980	370	190	ng/l	EPA 537M BY ID
Perfluorooctanoic acid [a]		5550	370	190	ng/l	EPA 537M BY ID
Perfluorononanoic acid [a]		640	19	9.3	ng/l	EPA 537M BY ID
Perfluorodecanoic acid [a]		9.8	1.9	0.93	ng/l	EPA 537M BY ID
Perfluoroundecanoic acid [a]		12.4	1.9	0.93	ng/l	EPA 537M BY ID
Perfluorotridecanoic acid [a]		1.2 J	1.9	0.93	ng/l	EPA 537M BY ID
Perfluorobutanesulfonic acid [a]		2140	370	190	ng/l	EPA 537M BY ID
Perfluorohexanesulfonic acid [a]		44400	370	190	ng/l	EPA 537M BY ID
Perfluoroheptanesulfonic acid [a]		3590	19	9.3	ng/l	EPA 537M BY ID
Perfluorooctanesulfonic acid [a]		26900	370	190	ng/l	EPA 537M BY ID
Perfluorodecanesulfonic acid [a]		2.7	1.9	0.93	ng/l	EPA 537M BY ID
PFOSA [a]		14.9	3.7	1.9	ng/l	EPA 537M BY ID
6:2 Fluorotelomer sulfonate [a]		50900	1500	370	ng/l	EPA 537M BY ID
8:2 Fluorotelomer sulfonate [a]		91.3	7.4	1.9	ng/l	EPA 537M BY ID
Anthracene		0.28 J	0.97	0.20	ug/l	SW846 8270E
Benzo(a)anthracene		0.63 J	0.97	0.20	ug/l	SW846 8270E
Benzo(a)pyrene		0.49 J	0.97	0.21	ug/l	SW846 8270E
Benzo(b)fluoranthene		0.57 J	0.97	0.20	ug/l	SW846 8270E
Carbazole		0.25 J	0.97	0.22	ug/l	SW846 8270E
Chrysene		0.54 J	0.97	0.17	ug/l	SW846 8270E
Diethyl phthalate		2.1	1.9	0.25	ug/l	SW846 8270E
bis(2-Ethylhexyl)phthalate		1.7 J	1.9	1.6	ug/l	SW846 8270E
Fluoranthene		1.2	0.97	0.17	ug/l	SW846 8270E
Phenanthrene		1.0	0.97	0.17	ug/l	SW846 8270E
Pyrene		0.91 J	0.97	0.21	ug/l	SW846 8270E
Total TIC, Semi-Volatile		554.9 J			ug/l	
Aluminum		13400	200		ug/l	SW846 6010D
Arsenic		50.4	3.0		ug/l	SW846 6010D
Barium		326	200		ug/l	SW846 6010D
Calcium		191000	5000		ug/l	SW846 6010D
Chromium		26.8	10		ug/l	SW846 6010D
Copper		27.6	10		ug/l	SW846 6010D
Iron		45100	100		ug/l	SW846 6010D
Lead		42.1	3.0		ug/l	SW846 6010D
Magnesium		27800	5000		ug/l	SW846 6010D
Manganese		1560	15		ug/l	SW846 6010D
Nickel		40.6	10		ug/l	SW846 6010D
Zinc		198	20		ug/l	SW846 6010D
JD29690-18F	**TWP3**					
Arsenic		8.4	3.0		ug/l	SW846 6010D
Calcium		119000	5000		ug/l	SW846 6010D
Iron		268	100		ug/l	SW846 6010D
Magnesium		10600	5000		ug/l	SW846 6010D

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Manganese	890	15		ug/l	SW846 6010D
Zinc	22.7	20		ug/l	SW846 6010D
JD29690-19 TWP5					
Perfluorobutanoic acid [a]	428	36	18	ng/l	EPA 537M BY ID
Perfluoropentanoic acid [a]	1660	18	8.9	ng/l	EPA 537M BY ID
Perfluorohexanoic acid [a]	1270	18	8.9	ng/l	EPA 537M BY ID
Perfluoroheptanoic acid [a]	846	18	8.9	ng/l	EPA 537M BY ID
Perfluorooctanoic acid [a]	478	18	8.9	ng/l	EPA 537M BY ID
Perfluorononanoic acid [a]	2.5	1.8	0.89	ng/l	EPA 537M BY ID
Perfluorodecanoic acid [a]	0.97 J	1.8	0.89	ng/l	EPA 537M BY ID
Perfluorobutanesulfonic acid [a]	167	1.8	0.89	ng/l	EPA 537M BY ID
Perfluorohexanesulfonic acid [a]	2590	18	8.9	ng/l	EPA 537M BY ID
Perfluoroheptanesulfonic acid [a]	83.4	1.8	0.89	ng/l	EPA 537M BY ID
Perfluorooctanesulfonic acid [a]	188	1.8	0.89	ng/l	EPA 537M BY ID
6:2 Fluorotelomer sulfonate [a]	2630	710	180	ng/l	EPA 537M BY ID
Benzo(a)anthracene	0.25 J	0.98	0.20	ug/l	SW846 8270E
Diethyl phthalate	0.43 J	2.0	0.26	ug/l	SW846 8270E
Fluoranthene	0.22 J	0.98	0.17	ug/l	SW846 8270E
Total TIC, Semi-Volatile	419.7 J			ug/l	
Aluminum	135000	2000		ug/l	SW846 6010D
Arsenic	167	30		ug/l	SW846 6010D
Calcium	1080000	50000		ug/l	SW846 6010D
Chromium	358	100		ug/l	SW846 6010D
Copper	344	100		ug/l	SW846 6010D
Iron	387000	1000		ug/l	SW846 6010D
Lead	601	30		ug/l	SW846 6010D
Magnesium	189000	50000		ug/l	SW846 6010D
Manganese	8630	150		ug/l	SW846 6010D
Nickel	365	100		ug/l	SW846 6010D
Selenium	103	100		ug/l	SW846 6010D
Sodium	116000	100000		ug/l	SW846 6010D
Zinc	2610	200		ug/l	SW846 6010D
JD29690-19F TWP5					
Arsenic	3.2	3.0		ug/l	SW846 6010D
Calcium	169000	5000		ug/l	SW846 6010D
Iron	699	100		ug/l	SW846 6010D
Magnesium	20600	5000		ug/l	SW846 6010D
Manganese	1230	15		ug/l	SW846 6010D
Sodium	112000	10000		ug/l	SW846 6010D
Zinc	48.6	20		ug/l	SW846 6010D

Summary of Hits

Job Number: JD29690
Account: HK Engineering & Geology, DPC
Project: HK2550, NY
Collected: 08/09/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JD29690-20 PFAS-BLANK

No hits reported in this sample.

(a) Analysis performed at SGS Orlando, FL.
(b) Elevated detection limit due to dilution required for high interfering element.
(c) More than 40 % RPD for detected concentrations between the two GC columns.
(d) Dilution required due to viscosity of the extract matrix.
(e) Dilution due to sample clogging SPE cartridge, only partial volume was extracted. Analysis performed at SGS Orlando, FL.
(f) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	S1A (0-2)		
Lab Sample ID:	JD29690-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	92.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C168413.D	1	08/11/21 19:07	PS	08/11/21 08:53	n/a	V3C7455
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	4.2	ug/kg	
71-43-2	Benzene	ND	0.51	0.47	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	0.57	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.44	ug/kg	
75-25-2	Bromoform	ND	5.1	1.4	ug/kg	
74-83-9	Bromomethane [a]	ND	5.1	0.78	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.55	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.63	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.47	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.60	ug/kg	
67-66-3	Chloroform	ND	2.0	0.53	ug/kg	
74-87-3	Chloromethane	ND	5.1	2.0	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.67	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.71	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.57	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.43	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.56	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.51	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	0.74	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.51	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.48	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.67	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.86	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.62	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.48	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.49	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.47	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.46	ug/kg	
76-13-1	Freon 113	ND	5.1	2.7	ug/kg	
591-78-6	2-Hexanone [b]	ND	5.1	2.2	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1A (0-2)		
Lab Sample ID:	JD29690-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	92.3
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.0	1.5	ug/kg	
79-20-9	Methyl Acetate	ND	5.1	1.4	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.89	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.48	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.1	2.3	ug/kg	
75-09-2	Methylene chloride	ND	5.1	2.7	ug/kg	
100-42-5	Styrene	ND	2.0	0.41	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.61	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.59	ug/kg	
108-88-3	Toluene	0.72	1.0	0.54	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	2.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	2.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.49	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.57	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.78	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	0.70	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.49	ug/kg	
	m,p-Xylene	ND	1.0	0.92	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.47	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.47	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		72-130%
17060-07-0	1,2-Dichloroethane-D4	97%		75-131%
2037-26-5	Toluene-D8	100%		81-121%
460-00-4	4-Bromofluorobenzene	105%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1A (0-2)		
Lab Sample ID:	JD29690-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	92.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z150670.D	1	08/12/21 10:18	CS	08/11/21 16:00	OP34825	EZ7488
Run #2							

	Initial Weight	Final Volume
Run #1	31.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	69	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	29	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	61	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	37	ug/kg	
95-48-7	2-Methylphenol	ND	69	22	ug/kg	
	3&4-Methylphenol	ND	69	28	ug/kg	
88-75-5	2-Nitrophenol	ND	170	23	ug/kg	
100-02-7	4-Nitrophenol	ND	350	92	ug/kg	
87-86-5	Pentachlorophenol	ND	140	32	ug/kg	
108-95-2	Phenol	ND	69	18	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	26	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	21	ug/kg	
83-32-9	Acenaphthene	ND	35	12	ug/kg	
208-96-8	Acenaphthylene	ND	35	18	ug/kg	
98-86-2	Acetophenone	ND	170	7.4	ug/kg	
120-12-7	Anthracene	ND	35	21	ug/kg	
1912-24-9	Atrazine	ND	69	15	ug/kg	
56-55-3	Benzo(a)anthracene	16.4	35	9.8	ug/kg	J
50-32-8	Benzo(a)pyrene	22.1	35	16	ug/kg	J
205-99-2	Benzo(b)fluoranthene	22.5	35	15	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	55.4	35	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	8.4	ug/kg	
92-52-4	1,1'-Biphenyl	ND	69	4.7	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	8.2	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	69	5.0	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1A (0-2)		
Lab Sample ID:	JD29690-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	92.3
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	69	14	ug/kg	
218-01-9	Chrysene	42.0	35	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	7.4	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	69	15	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	69	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	35	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	35	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	69	29	ug/kg	
123-91-1	1,4-Dioxane	ND	35	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	15	ug/kg	
132-64-9	Dibenzofuran	ND	69	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	5.6	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	69	8.6	ug/kg	
84-66-2	Diethyl phthalate	ND	69	7.3	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	6.1	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	26.8	69	8.1	ug/kg	J
206-44-0	Fluoranthene	23.2	35	15	ug/kg	J
86-73-7	Fluorene	ND	35	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	8.7	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	14	ug/kg	
67-72-1	Hexachloroethane	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	30.5	35	16	ug/kg	J
78-59-1	Isophorone	ND	69	7.4	ug/kg	
91-57-6	2-Methylnaphthalene	ND	35	7.8	ug/kg	
88-74-4	2-Nitroaniline	ND	170	8.1	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.6	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.9	ug/kg	
91-20-3	Naphthalene	ND	35	9.7	ug/kg	
98-95-3	Nitrobenzene	ND	69	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	13	ug/kg	
85-01-8	Phenanthrene	20.4	35	12	ug/kg	J
129-00-0	Pyrene	21.7	35	11	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1A (0-2)		
Lab Sample ID:	JD29690-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	92.3
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	52%		12-101%
118-79-6	2,4,6-Tribromophenol	46%		10-127%
4165-60-0	Nitrobenzene-d5	62%		15-114%
321-60-8	2-Fluorobiphenyl	64%		22-104%
1718-51-0	Terphenyl-d14	63%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.65	450	ug/kg	J
57-10-3	n-Hexadecanoic acid	9.15	280	ug/kg	JN
	unknown	13.80	140	ug/kg	J
	unknown	14.02	190	ug/kg	J
	unknown	14.40	220	ug/kg	J
	unknown	14.86	140	ug/kg	J
	unknown	14.99	250	ug/kg	J
	unknown	15.34	210	ug/kg	J
	Total TIC, Semi-Volatile		1430	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1A (0-2)		
Lab Sample ID:	JD29690-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	92.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G78857.D	1	08/12/21 00:44	CP	08/11/21 11:50	OP34822	G6G2764
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.70	0.58	ug/kg	
319-84-6	alpha-BHC	ND	0.70	0.57	ug/kg	
319-85-7	beta-BHC	ND	0.70	0.64	ug/kg	
319-86-8	delta-BHC	ND	0.70	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.70	0.52	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.70	0.57	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.70	0.32	ug/kg	
60-57-1	Dieldrin	ND	0.70	0.48	ug/kg	
72-54-8	4,4'-DDD [a]	ND	0.70	0.64	ug/kg	
72-55-9	4,4'-DDE	ND	0.70	0.62	ug/kg	
50-29-3	4,4'-DDT	ND	0.70	0.62	ug/kg	
72-20-8	Endrin	ND	0.70	0.55	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.70	0.55	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.70	0.40	ug/kg	
959-98-8	Endosulfan-I	ND	0.70	0.40	ug/kg	
33213-65-9	Endosulfan-II	ND	0.70	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.70	0.61	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.70	0.49	ug/kg	
72-43-5	Methoxychlor [a]	ND	1.4	0.56	ug/kg	
53494-70-5	Endrin ketone	ND	0.70	0.51	ug/kg	
8001-35-2	Toxaphene	ND	18	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		27-138%
877-09-8	Tetrachloro-m-xylene	70%		27-138%
2051-24-3	Decachlorobiphenyl	53%		10-179%
2051-24-3	Decachlorobiphenyl	58%		10-179%

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1A (0-2)		
Lab Sample ID:	JD29690-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	92.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2472.D	1	08/12/21 12:06	TC	08/11/21 11:50	OP34821	GRK68
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	16	ug/kg	
11104-28-2	Aroclor 1221	ND	35	22	ug/kg	
11141-16-5	Aroclor 1232	ND	35	22	ug/kg	
53469-21-9	Aroclor 1242	ND	35	14	ug/kg	
12672-29-6	Aroclor 1248	ND	35	31	ug/kg	
11097-69-1	Aroclor 1254	ND	35	19	ug/kg	
11096-82-5	Aroclor 1260	ND	35	15	ug/kg	
11100-14-4	Aroclor 1268	ND	35	15	ug/kg	
37324-23-5	Aroclor 1262	ND	35	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		24-152%
877-09-8	Tetrachloro-m-xylene	86%		24-152%
2051-24-3	Decachlorobiphenyl	49%		10-172%
2051-24-3	Decachlorobiphenyl	143%		10-172%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1A (0-2)		
Lab Sample ID:	JD29690-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	92.3
Project:	HK2550, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7960	56	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Antimony	< 2.2	2.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic	3.1	2.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	66.4	22	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium [a]	< 1.1	1.1	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Cadmium	< 0.56	0.56	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Calcium	99500	2800	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Chromium	9.6	1.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Cobalt	< 5.6	5.6	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Copper	11.8	2.8	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Iron	12400	56	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Lead	12.1	2.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Magnesium	29100	560	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Manganese	666	1.7	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Mercury	< 0.032	0.032	mg/kg	1	08/13/21	08/13/21	LM	SW846 7471B [1]	SW846 7471B [5]
Nickel	12.1	4.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Potassium	1890	1100	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium	< 2.2	2.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Silver [a]	< 2.8	2.8	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Sodium	< 1100	1100	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium	14.9	5.6	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc	66.4	5.6	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA50977
(2) Instrument QC Batch: MA50984
(3) Instrument QC Batch: MA50994
(4) Prep QC Batch: MP28052
(5) Prep QC Batch: MP28066

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S1A (0-2)		
Lab Sample ID:	JD29690-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	92.3
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.25	0.25	mg/kg	1	08/11/21 22:39	EB	SW846 9012B/LACHAT
Solids, Percent	92.3		%	1	08/11/21 16:13	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S1B (2-4)		
Lab Sample ID:	JD29690-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	81.0
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C168414.D	1	08/11/21 19:33	PS	08/11/21 08:53	n/a	V3C7455
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	26.0	11	4.7	ug/kg	
71-43-2	Benzene	ND	0.57	0.52	ug/kg	
74-97-5	Bromochloromethane	ND	5.7	0.64	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.49	ug/kg	
75-25-2	Bromoform	ND	5.7	1.6	ug/kg	
74-83-9	Bromomethane [a]	ND	5.7	0.87	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.3	0.61	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	0.71	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.52	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.68	ug/kg	
67-66-3	Chloroform	ND	2.3	0.59	ug/kg	
74-87-3	Chloromethane	ND	5.7	2.2	ug/kg	
110-82-7	Cyclohexane	ND	2.3	0.75	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.79	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.64	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.48	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.62	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.57	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.56	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.7	0.83	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.57	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.54	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.75	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.96	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.70	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.54	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.54	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.52	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.52	ug/kg	
76-13-1	Freon 113	ND	5.7	3.1	ug/kg	
591-78-6	2-Hexanone [b]	ND	5.7	2.4	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1B (2-4)		
Lab Sample ID:	JD29690-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	81.0
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.3	1.6	ug/kg	
79-20-9	Methyl Acetate	ND	5.7	1.6	ug/kg	
108-87-2	Methylcyclohexane	ND	2.3	1.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.54	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	2.6	ug/kg	
75-09-2	Methylene chloride	ND	5.7	3.0	ug/kg	
100-42-5	Styrene	ND	2.3	0.46	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.68	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.66	ug/kg	
108-88-3	Toluene	1.2	1.1	0.60	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	2.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	2.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.55	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.63	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.87	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.78	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.55	ug/kg	
	m,p-Xylene	ND	1.1	1.0	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.52	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.52	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		72-130%
17060-07-0	1,2-Dichloroethane-D4	98%		75-131%
2037-26-5	Toluene-D8	100%		81-121%
460-00-4	4-Bromofluorobenzene	103%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1B (2-4)		
Lab Sample ID:	JD29690-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	81.0
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z150666.D	1	08/12/21 08:35	CS	08/11/21 16:00	OP34825	EZ7488
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	82	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	25	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	73	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	200	44	ug/kg	
95-48-7	2-Methylphenol	ND	82	26	ug/kg	
	3&4-Methylphenol	ND	82	34	ug/kg	
88-75-5	2-Nitrophenol	ND	200	27	ug/kg	
100-02-7	4-Nitrophenol	ND	410	110	ug/kg	
87-86-5	Pentachlorophenol	ND	160	38	ug/kg	
108-95-2	Phenol	ND	82	21	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	31	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	24	ug/kg	
83-32-9	Acenaphthene	ND	41	14	ug/kg	
208-96-8	Acenaphthylene	ND	41	21	ug/kg	
98-86-2	Acetophenone	ND	200	8.8	ug/kg	
120-12-7	Anthracene	ND	41	25	ug/kg	
1912-24-9	Atrazine	ND	82	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	41	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	41	19	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	41	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	41	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	41	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	82	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	82	10	ug/kg	
92-52-4	1,1'-Biphenyl	ND	82	5.6	ug/kg	
100-52-7	Benzaldehyde	ND	200	10	ug/kg	
91-58-7	2-Chloronaphthalene	ND	82	9.7	ug/kg	
106-47-8	4-Chloroaniline	ND	200	15	ug/kg	
86-74-8	Carbazole	ND	82	5.9	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1B (2-4)		
Lab Sample ID:	JD29690-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	81.0
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	82	16	ug/kg	
218-01-9	Chrysene	ND	41	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	82	8.7	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	82	18	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	82	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	82	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	41	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	41	21	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	82	34	ug/kg	
123-91-1	1,4-Dioxane	ND	41	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	41	18	ug/kg	
132-64-9	Dibenzofuran	ND	82	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	82	6.7	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	82	10	ug/kg	
84-66-2	Diethyl phthalate	ND	82	8.7	ug/kg	
131-11-3	Dimethyl phthalate	ND	82	7.3	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	82	9.6	ug/kg	
206-44-0	Fluoranthene	ND	41	18	ug/kg	
86-73-7	Fluorene	ND	41	19	ug/kg	
118-74-1	Hexachlorobenzene	ND	82	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	41	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	410	16	ug/kg	
67-72-1	Hexachloroethane	ND	200	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	41	19	ug/kg	
78-59-1	Isophorone	ND	82	8.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	41	9.2	ug/kg	
88-74-4	2-Nitroaniline	ND	200	9.6	ug/kg	
99-09-2	3-Nitroaniline	ND	200	10	ug/kg	
100-01-6	4-Nitroaniline	ND	200	11	ug/kg	
91-20-3	Naphthalene	ND	41	12	ug/kg	
98-95-3	Nitrobenzene	ND	82	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	82	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	15	ug/kg	
85-01-8	Phenanthrene	ND	41	14	ug/kg	
129-00-0	Pyrene	ND	41	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1B (2-4)		
Lab Sample ID:	JD29690-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	81.0
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	49%		12-101%
118-79-6	2,4,6-Tribromophenol	19%		10-127%
4165-60-0	Nitrobenzene-d5	57%		15-114%
321-60-8	2-Fluorobiphenyl	62%		22-104%
1718-51-0	Terphenyl-d14	66%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.65	430	ug/kg	J
	system artifact/aldol-condensation	3.29	160	ug/kg	J
10544-50-0	Cyclic octaatomic sulfur	10.02	670	ug/kg	JN
	Total TIC, Semi-Volatile		670	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1B (2-4)		
Lab Sample ID:	JD29690-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	EPA 537M BY ID IN HOUSE	**Percent Solids:**	81.0
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3Q43049.D	1	08/17/21 15:12	AFL	08/17/21 06:30	F:OP86869	F:S3Q628
Run #2							

	Initial Weight	Final Volume
Run #1	1.99 g	1.0 ml
Run #2		

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	1.2	0.47	ug/kg	
2706-90-3	Perfluoropentanoic acid	0.67	0.62	0.31	ug/kg	
307-24-4	Perfluorohexanoic acid	0.47	0.62	0.31	ug/kg	J
375-85-9	Perfluoroheptanoic acid	0.36	0.62	0.31	ug/kg	J
335-67-1	Perfluorooctanoic acid	0.55	0.62	0.31	ug/kg	J
375-95-1	Perfluorononanoic acid	ND	0.62	0.31	ug/kg	
335-76-2	Perfluorodecanoic acid	ND	0.62	0.31	ug/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.62	0.31	ug/kg	
307-55-1	Perfluorododecanoic acid	ND	0.62	0.31	ug/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.62	0.33	ug/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.62	0.31	ug/kg	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.62	0.31	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	1.2	0.62	0.31	ug/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.62	0.31	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	3.0	0.62	0.31	ug/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.62	0.31	ug/kg	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	0.62	0.31	ug/kg	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	1.2	0.62	ug/kg	
2991-50-6	EtFOSAA	ND	1.2	0.62	ug/kg	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	4.4	1.2	0.31	ug/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	1.2	0.31	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1B (2-4)		
Lab Sample ID:	JD29690-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	EPA 537M BY ID IN HOUSE	**Percent Solids:**	81.0
Project:	HK2550, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	104%		40-140%
	13C5-PFPeA	104%		50-150%
	13C5-PFHxA	103%		50-150%
	13C4-PFHpA	103%		50-150%
	13C8-PFOA	104%		50-150%
	13C9-PFNA	105%		50-150%
	13C6-PFDA	103%		50-150%
	13C7-PFUnDA	103%		40-140%
	13C2-PFDoDA	99%		40-140%
	13C2-PFTeDA	100%		30-130%
	13C3-PFBS	102%		50-150%
	13C3-PFHxS	101%		50-150%
	13C8-PFOS	100%		50-150%
	13C8-FOSA	83%		30-130%
	d3-MeFOSAA	107%		40-140%
	d5-EtFOSAA	105%		40-140%
	13C2-6:2FTS	100%		50-150%
	13C2-8:2FTS	97%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1B (2-4)		
Lab Sample ID:	JD29690-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	81.0
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G78858.D	1	08/12/21 01:02	CP	08/11/21 11:50	OP34822	G6G2764
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.80	0.66	ug/kg	
319-84-6	alpha-BHC	ND	0.80	0.65	ug/kg	
319-85-7	beta-BHC	ND	0.80	0.72	ug/kg	
319-86-8	delta-BHC	ND	0.80	0.77	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.80	0.59	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.80	0.65	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.80	0.36	ug/kg	
60-57-1	Dieldrin	ND	0.80	0.55	ug/kg	
72-54-8	4,4'-DDD [a]	ND	0.80	0.74	ug/kg	
72-55-9	4,4'-DDE	ND	0.80	0.70	ug/kg	
50-29-3	4,4'-DDT	ND	0.80	0.71	ug/kg	
72-20-8	Endrin	ND	0.80	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.80	0.63	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.80	0.45	ug/kg	
959-98-8	Endosulfan-I	ND	0.80	0.46	ug/kg	
33213-65-9	Endosulfan-II	ND	0.80	0.50	ug/kg	
76-44-8	Heptachlor	ND	0.80	0.69	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.80	0.56	ug/kg	
72-43-5	Methoxychlor [a]	ND	1.6	0.64	ug/kg	
53494-70-5	Endrin ketone	ND	0.80	0.58	ug/kg	
8001-35-2	Toxaphene	ND	20	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	134%		27-138%
877-09-8	Tetrachloro-m-xylene	108%		27-138%
2051-24-3	Decachlorobiphenyl	85%		10-179%
2051-24-3	Decachlorobiphenyl	78%		10-179%

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1B (2-4)		
Lab Sample ID:	JD29690-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	81.0
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	RK2456.D	1	08/12/21 06:18	TC	08/11/21 11:50	OP34821	GRK67
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	19	ug/kg	
11104-28-2	Aroclor 1221	ND	40	25	ug/kg	
11141-16-5	Aroclor 1232	ND	40	26	ug/kg	
53469-21-9	Aroclor 1242	ND	40	16	ug/kg	
12672-29-6	Aroclor 1248	ND	40	36	ug/kg	
11097-69-1	Aroclor 1254	ND	40	22	ug/kg	
11096-82-5	Aroclor 1260	ND	40	17	ug/kg	
11100-14-4	Aroclor 1268	ND	40	17	ug/kg	
37324-23-5	Aroclor 1262	ND	40	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	121%		24-152%
877-09-8	Tetrachloro-m-xylene	139%		24-152%
2051-24-3	Decachlorobiphenyl	102%		10-172%
2051-24-3	Decachlorobiphenyl	119%		10-172%

(a) Had TBA cleanup.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S1B (2-4)		
Lab Sample ID:	JD29690-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	81.0
Project:	HK2550, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	11000	64	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.5	2.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	3.4	2.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	66.0	25	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.60	0.25	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.64	0.64	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Calcium	7210	640	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	14.2	1.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cobalt	8.9	6.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	13.5	3.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	17400	64	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	11.7	2.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Magnesium	4540	640	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Manganese	180	1.9	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.039	0.039	mg/kg	1	08/13/21	08/13/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	18.8	5.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1300	1300	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.5	2.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.64	0.64	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1300	1300	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.3	1.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	20.8	6.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	72.5	6.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50977
(2) Instrument QC Batch: MA50984
(3) Prep QC Batch: MP28052
(4) Prep QC Batch: MP28066

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S1B (2-4)		
Lab Sample ID:	JD29690-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	81.0
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.26	0.26	mg/kg	1	08/11/21 22:43	EB	SW846 9012B/LACHAT
Solids, Percent	81		%	1	08/11/21 16:13	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S2B (2-4)		
Lab Sample ID:	JD29690-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	81.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C168415.D	1	08/11/21 19:59	PS	08/11/21 08:53	n/a	V3C7455
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	5.0	ug/kg	
71-43-2	Benzene	ND	0.60	0.55	ug/kg	
74-97-5	Bromochloromethane	ND	6.0	0.68	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.52	ug/kg	
75-25-2	Bromoform	ND	6.0	1.6	ug/kg	
74-83-9	Bromomethane [a]	ND	6.0	0.92	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.9	ug/kg	
75-15-0	Carbon disulfide	ND	2.4	0.65	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	0.75	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.55	ug/kg	
75-00-3	Chloroethane	ND	6.0	0.71	ug/kg	
67-66-3	Chloroform	ND	2.4	0.63	ug/kg	
74-87-3	Chloromethane	ND	6.0	2.4	ug/kg	
110-82-7	Cyclohexane	ND	2.4	0.79	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.84	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.68	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.51	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.66	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.60	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.60	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.0	0.88	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.60	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.57	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.79	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.74	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.57	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.57	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.55	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.55	ug/kg	
76-13-1	Freon 113	ND	6.0	3.2	ug/kg	
591-78-6	2-Hexanone [b]	ND	6.0	2.6	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S2B (2-4)		
Lab Sample ID:	JD29690-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	81.3
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.4	1.7	ug/kg	
79-20-9	Methyl Acetate	ND	6.0	1.7	ug/kg	
108-87-2	Methylcyclohexane	ND	2.4	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.57	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	2.7	ug/kg	
75-09-2	Methylene chloride	ND	6.0	3.1	ug/kg	
100-42-5	Styrene	ND	2.4	0.48	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.72	ug/kg	
127-18-4	Tetrachloroethene	ND	2.4	0.70	ug/kg	
108-88-3	Toluene	1.3	1.2	0.63	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	3.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	3.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.58	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.67	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.92	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.0	0.82	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.58	ug/kg	
	m,p-Xylene	ND	1.2	1.1	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.55	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.55	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		72-130%
17060-07-0	1,2-Dichloroethane-D4	97%		75-131%
2037-26-5	Toluene-D8	101%		81-121%
460-00-4	4-Bromofluorobenzene	104%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S2B (2-4)		
Lab Sample ID:	JD29690-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	81.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z150664.D	1	08/12/21 07:42	CS	08/11/21 16:00	OP34825	EZ7488
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	81	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	25	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	72	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	200	43	ug/kg	
95-48-7	2-Methylphenol	ND	81	26	ug/kg	
	3&4-Methylphenol	ND	81	33	ug/kg	
88-75-5	2-Nitrophenol	ND	200	27	ug/kg	
100-02-7	4-Nitrophenol	ND	400	110	ug/kg	
87-86-5	Pentachlorophenol	ND	160	38	ug/kg	
108-95-2	Phenol	ND	81	21	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	30	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	24	ug/kg	
83-32-9	Acenaphthene	ND	40	14	ug/kg	
208-96-8	Acenaphthylene	ND	40	21	ug/kg	
98-86-2	Acetophenone	ND	200	8.7	ug/kg	
120-12-7	Anthracene	ND	40	25	ug/kg	
1912-24-9	Atrazine	ND	81	17	ug/kg	
56-55-3	Benzo(a)anthracene	ND	40	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	40	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	40	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	40	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	81	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	81	9.9	ug/kg	
92-52-4	1,1'-Biphenyl	ND	81	5.5	ug/kg	
100-52-7	Benzaldehyde	ND	200	10	ug/kg	
91-58-7	2-Chloronaphthalene	ND	81	9.6	ug/kg	
106-47-8	4-Chloroaniline	ND	200	15	ug/kg	
86-74-8	Carbazole	ND	81	5.9	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S2B (2-4)		
Lab Sample ID:	JD29690-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	81.3
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	81	16	ug/kg	
218-01-9	Chrysene	ND	40	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	81	8.7	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	81	17	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	81	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	81	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	40	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	40	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	81	34	ug/kg	
123-91-1	1,4-Dioxane	ND	40	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	40	18	ug/kg	
132-64-9	Dibenzofuran	ND	81	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	81	6.6	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	81	10	ug/kg	
84-66-2	Diethyl phthalate	ND	81	8.6	ug/kg	
131-11-3	Dimethyl phthalate	ND	81	7.2	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	81	9.5	ug/kg	
206-44-0	Fluoranthene	ND	40	18	ug/kg	
86-73-7	Fluorene	ND	40	19	ug/kg	
118-74-1	Hexachlorobenzene	ND	81	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	40	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	400	16	ug/kg	
67-72-1	Hexachloroethane	ND	200	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40	19	ug/kg	
78-59-1	Isophorone	ND	81	8.7	ug/kg	
91-57-6	2-Methylnaphthalene	ND	40	9.1	ug/kg	
88-74-4	2-Nitroaniline	ND	200	9.5	ug/kg	
99-09-2	3-Nitroaniline	ND	200	10	ug/kg	
100-01-6	4-Nitroaniline	ND	200	10	ug/kg	
91-20-3	Naphthalene	ND	40	11	ug/kg	
98-95-3	Nitrobenzene	ND	81	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	81	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	15	ug/kg	
85-01-8	Phenanthrene	ND	40	14	ug/kg	
129-00-0	Pyrene	ND	40	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S2B (2-4)		
Lab Sample ID:	JD29690-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	81.3
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	47%		12-101%
118-79-6	2,4,6-Tribromophenol	42%		10-127%
4165-60-0	Nitrobenzene-d5	53%		15-114%
321-60-8	2-Fluorobiphenyl	58%		22-104%
1718-51-0	Terphenyl-d14	60%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.66	490	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S2B (2-4)		
Lab Sample ID:	JD29690-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	EPA 537M BY ID IN HOUSE	**Percent Solids:**	81.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3Q43050.D	1	08/17/21 15:29	AFL	08/17/21 06:30	F:OP86869	F:S3Q628
Run #2							

	Initial Weight	Final Volume
Run #1	2.06 g	1.0 ml
Run #2		

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	1.2	0.45	ug/kg	
2706-90-3	Perfluoropentanoic acid	0.75	0.60	0.30	ug/kg	
307-24-4	Perfluorohexanoic acid	0.53	0.60	0.30	ug/kg	J
375-85-9	Perfluoroheptanoic acid	0.47	0.60	0.30	ug/kg	J
335-67-1	Perfluorooctanoic acid	0.86	0.60	0.30	ug/kg	
375-95-1	Perfluorononanoic acid	ND	0.60	0.30	ug/kg	
335-76-2	Perfluorodecanoic acid	ND	0.60	0.30	ug/kg	
2058-94-8	Perfluoroundecanoic acid	ND	0.60	0.30	ug/kg	
307-55-1	Perfluorododecanoic acid	ND	0.60	0.30	ug/kg	
72629-94-8	Perfluorotridecanoic acid	ND	0.60	0.32	ug/kg	
376-06-7	Perfluorotetradecanoic acid	ND	0.60	0.30	ug/kg	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.60	0.30	ug/kg	
355-46-4	Perfluorohexanesulfonic acid	1.0	0.60	0.30	ug/kg	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.60	0.30	ug/kg	
1763-23-1	Perfluorooctanesulfonic acid	1.8	0.60	0.30	ug/kg	
335-77-3	Perfluorodecanesulfonic acid	ND	0.60	0.30	ug/kg	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	0.60	0.30	ug/kg	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	1.2	0.60	ug/kg	
2991-50-6	EtFOSAA	ND	1.2	0.60	ug/kg	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	1.2	0.30	ug/kg	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	1.2	0.30	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S2B (2-4)		
Lab Sample ID:	JD29690-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	EPA 537M BY ID IN HOUSE	**Percent Solids:**	81.3
Project:	HK2550, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	100%		40-140%
	13C5-PFPeA	100%		50-150%
	13C5-PFHxA	99%		50-150%
	13C4-PFHpA	100%		50-150%
	13C8-PFOA	100%		50-150%
	13C9-PFNA	101%		50-150%
	13C6-PFDA	98%		50-150%
	13C7-PFUnDA	99%		40-140%
	13C2-PFDoDA	96%		40-140%
	13C2-PFTeDA	95%		30-130%
	13C3-PFBS	96%		50-150%
	13C3-PFHxS	95%		50-150%
	13C8-PFOS	95%		50-150%
	13C8-FOSA	90%		30-130%
	d3-MeFOSAA	99%		40-140%
	d5-EtFOSAA	100%		40-140%
	13C2-6:2FTS	93%		50-150%
	13C2-8:2FTS	92%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S2B (2-4)		
Lab Sample ID:	JD29690-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	81.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G78861.D	1	08/12/21 01:57	CP	08/11/21 11:50	OP34822	G6G2764
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.80	0.66	ug/kg	
319-84-6	alpha-BHC	ND	0.80	0.65	ug/kg	
319-85-7	beta-BHC	ND	0.80	0.72	ug/kg	
319-86-8	delta-BHC	ND	0.80	0.77	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.80	0.59	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.80	0.65	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.80	0.36	ug/kg	
60-57-1	Dieldrin	ND	0.80	0.55	ug/kg	
72-54-8	4,4'-DDD [a]	ND	0.80	0.74	ug/kg	
72-55-9	4,4'-DDE	ND	0.80	0.70	ug/kg	
50-29-3	4,4'-DDT	ND	0.80	0.71	ug/kg	
72-20-8	Endrin	ND	0.80	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.80	0.63	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.80	0.45	ug/kg	
959-98-8	Endosulfan-I	ND	0.80	0.46	ug/kg	
33213-65-9	Endosulfan-II	ND	0.80	0.50	ug/kg	
76-44-8	Heptachlor	ND	0.80	0.69	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.80	0.56	ug/kg	
72-43-5	Methoxychlor [a]	ND	1.6	0.64	ug/kg	
53494-70-5	Endrin ketone	ND	0.80	0.58	ug/kg	
8001-35-2	Toxaphene	ND	20	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		27-138%
877-09-8	Tetrachloro-m-xylene	89%		27-138%
2051-24-3	Decachlorobiphenyl	83%		10-179%
2051-24-3	Decachlorobiphenyl	85%		10-179%

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S2B (2-4)		
Lab Sample ID:	JD29690-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	81.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2427.D	1	08/11/21 22:20	TC	08/11/21 11:50	OP34821	GRK67
Run #2							

	Initial Weight	Final Volume
Run #1	16.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	18	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	24	ug/kg	
53469-21-9	Aroclor 1242	ND	38	15	ug/kg	
12672-29-6	Aroclor 1248	ND	38	34	ug/kg	
11097-69-1	Aroclor 1254	ND	38	20	ug/kg	
11096-82-5	Aroclor 1260	ND	38	16	ug/kg	
11100-14-4	Aroclor 1268	ND	38	16	ug/kg	
37324-23-5	Aroclor 1262	ND	38	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		24-152%
877-09-8	Tetrachloro-m-xylene	120%		24-152%
2051-24-3	Decachlorobiphenyl	86%		10-172%
2051-24-3	Decachlorobiphenyl	127%		10-172%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S2B (2-4)		
Lab Sample ID:	JD29690-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	81.3
Project:	HK2550, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9060	62	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.5	2.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	6.3	2.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	52.7	25	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.55	0.25	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.62	0.62	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Calcium	2870	620	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	12.3	1.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cobalt	7.5	6.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	12.9	3.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	22000	62	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	10.1	2.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Magnesium	2740	620	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Manganese	194	1.8	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.034	0.034	mg/kg	1	08/13/21	08/13/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	17.6	4.9	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1200	1200	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.5	2.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.62	0.62	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	19.7	6.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	59.3	6.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50977
(2) Instrument QC Batch: MA50984
(3) Prep QC Batch: MP28052
(4) Prep QC Batch: MP28066

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S2B (2-4)		
Lab Sample ID:	JD29690-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	81.3
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.26	0.26	mg/kg	1	08/11/21 22:44	EB	SW846 9012B/LACHAT
Solids, Percent	81.3		%	1	08/11/21 16:13	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S3A (0-2)		
Lab Sample ID:	JD29690-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	87.4
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C168416.D	1	08/11/21 20:25	PS	08/11/21 08:53	n/a	V3C7455
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	6.0	11	4.5	ug/kg	J
71-43-2	Benzene	ND	0.54	0.49	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	0.60	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.46	ug/kg	
75-25-2	Bromoform	ND	5.4	1.5	ug/kg	
74-83-9	Bromomethane [a]	ND	5.4	0.82	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.6	ug/kg	
75-15-0	Carbon disulfide	1.9	2.2	0.58	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.2	0.67	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.50	ug/kg	
75-00-3	Chloroethane	ND	5.4	0.64	ug/kg	
67-66-3	Chloroform	ND	2.2	0.56	ug/kg	
74-87-3	Chloromethane	ND	5.4	2.1	ug/kg	
110-82-7	Cyclohexane	ND	2.2	0.71	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.2	0.75	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.60	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.45	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.59	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.54	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.53	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	0.78	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.53	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.51	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.71	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.91	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.66	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.51	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.51	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.49	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.49	ug/kg	
76-13-1	Freon 113	ND	5.4	2.9	ug/kg	
591-78-6	2-Hexanone [b]	ND	5.4	2.3	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3A (0-2)		
Lab Sample ID:	JD29690-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	87.4
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.2	1.5	ug/kg	
79-20-9	Methyl Acetate	ND	5.4	1.5	ug/kg	
108-87-2	Methylcyclohexane	ND	2.2	0.94	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.51	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	2.5	ug/kg	
75-09-2	Methylene chloride	ND	5.4	2.8	ug/kg	
100-42-5	Styrene	ND	2.2	0.43	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.65	ug/kg	
127-18-4	Tetrachloroethene	ND	2.2	0.63	ug/kg	
108-88-3	Toluene	0.94	1.1	0.57	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	2.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	2.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.52	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.60	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.82	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	0.74	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.52	ug/kg	
	m,p-Xylene	ND	1.1	0.97	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.49	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.49	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-130%
17060-07-0	1,2-Dichloroethane-D4	97%		75-131%
2037-26-5	Toluene-D8	100%		81-121%
460-00-4	4-Bromofluorobenzene	104%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3A (0-2)		
Lab Sample ID:	JD29690-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.4
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z150672.D	1	08/12/21 11:11	CS	08/11/21 16:00	OP34825	EZ7488
Run #2	Z150694.D	5	08/12/21 22:52	BL	08/11/21 16:00	OP34825	EZ7489

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2	30.4 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	75	19	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	32	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	67	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	40	ug/kg	
95-48-7	2-Methylphenol	ND	75	24	ug/kg	
	3&4-Methylphenol	ND	75	31	ug/kg	
88-75-5	2-Nitrophenol	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol	ND	380	100	ug/kg	
87-86-5	Pentachlorophenol	ND	150	35	ug/kg	
108-95-2	Phenol	ND	75	20	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	22	ug/kg	
83-32-9	Acenaphthene	1330	38	13	ug/kg	
208-96-8	Acenaphthylene	42.7	38	19	ug/kg	
98-86-2	Acetophenone	ND	190	8.1	ug/kg	
120-12-7	Anthracene	3620 [a]	190	120	ug/kg	
1912-24-9	Atrazine	ND	75	16	ug/kg	
56-55-3	Benzo(a)anthracene	8190 [a]	190	53	ug/kg	
50-32-8	Benzo(a)pyrene	6110 [a]	190	86	ug/kg	
205-99-2	Benzo(b)fluoranthene	7460 [a]	190	83	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1880	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	2900	38	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	75	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	75	9.2	ug/kg	
92-52-4	1,1'-Biphenyl	147	75	5.2	ug/kg	
100-52-7	Benzaldehyde	ND	190	9.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	75	9.0	ug/kg	
106-47-8	4-Chloroaniline	ND	190	14	ug/kg	
86-74-8	Carbazole	1520	75	5.5	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3A (0-2)		
Lab Sample ID:	JD29690-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.4
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	75	15	ug/kg	
218-01-9	Chrysene	7500 [a]	190	59	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	75	8.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	75	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	75	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	75	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	38	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	38	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	75	31	ug/kg	
123-91-1	1,4-Dioxane	ND	38	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	638	38	17	ug/kg	
132-64-9	Dibenzofuran	1050	75	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	75	6.1	ug/kg	
117-84-0	Di-n-octyl phthalate [b]	ND	75	9.4	ug/kg	
84-66-2	Diethyl phthalate	ND	75	8.0	ug/kg	
131-11-3	Dimethyl phthalate	ND	75	6.7	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	75	8.8	ug/kg	
206-44-0	Fluoranthene	17800 [a]	190	84	ug/kg	
86-73-7	Fluorene	1410	38	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	75	9.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	2510	38	18	ug/kg	
78-59-1	Isophorone	ND	75	8.1	ug/kg	
91-57-6	2-Methylnaphthalene	252	38	8.5	ug/kg	
88-74-4	2-Nitroaniline	ND	190	8.9	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.4	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.7	ug/kg	
91-20-3	Naphthalene	256	38	11	ug/kg	
98-95-3	Nitrobenzene	ND	75	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	75	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	15700 [a]	190	63	ug/kg	
129-00-0	Pyrene	15200 [a]	190	60	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	53%	55%	7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3A (0-2)		
Lab Sample ID:	JD29690-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.4
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	52%	56%	12-101%
118-79-6	2,4,6-Tribromophenol	7% [d]	5% [c]	10-127%
4165-60-0	Nitrobenzene-d5	63%	59%	15-114%
321-60-8	2-Fluorobiphenyl	69%	52%	22-104%
1718-51-0	Terphenyl-d14	52%	56%	23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.65	480	ug/kg	J
	system artifact/aldol-condensation	3.30	4900	ug/kg	J
	Naphthalene dimethyl	6.44	300	ug/kg	J
	Naphthalene dimethyl	6.51	380	ug/kg	J
	unknown	7.38	280	ug/kg	J
	Dibenzofuran methyl	7.47	420	ug/kg	J
	Phenanthrene methyl	9.15	190	ug/kg	J
	Pyrene methyl	10.81	350	ug/kg	J
	Pyrene methyl	10.96	220	ug/kg	J
	unknown	11.80	220	ug/kg	J
	Chrysene methyl	12.77	210	ug/kg	J
	unknown	13.26	770	ug/kg	J
	-Binaphthalene	13.50	590	ug/kg	J
	unknown	13.66	440	ug/kg	J
	unknown PAH substance	13.86	1900	ug/kg	J
	unknown	14.02	1200	ug/kg	J
	unknown PAH substance	14.10	4600	ug/kg	J
	unknown	14.32	330	ug/kg	J
	unknown	14.48	1000	ug/kg	J
	unknown	14.60	790	ug/kg	J
	unknown	14.71	310	ug/kg	J
	unknown	14.80	500	ug/kg	J
	unknown	15.24	450	ug/kg	J
	unknown	15.34	810	ug/kg	J
	unknown	15.44	900	ug/kg	J
	unknown	15.72	580	ug/kg	J
	unknown	16.07	1000	ug/kg	J
	Total TIC, Semi-Volatile		18740	ug/kg	J

(a) Result is from Run# 2
(b) Associated CCV outside of control limits high, sample was ND.
(c) Outside control limits due to dilution and matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3A (0-2)		
Lab Sample ID:	JD29690-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	87.4
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q

(d) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3A (0-2)		
Lab Sample ID:	JD29690-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	87.4
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G78862.D	1	08/12/21 02:15	CP	08/11/21 11:50	OP34822	G6G2764
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.75	0.62	ug/kg	
319-84-6	alpha-BHC	ND	0.75	0.61	ug/kg	
319-85-7	beta-BHC	ND	0.75	0.68	ug/kg	
319-86-8	delta-BHC	ND	0.75	0.72	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.75	0.55	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.75	0.60	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.75	0.34	ug/kg	
60-57-1	Dieldrin	ND	0.75	0.51	ug/kg	
72-54-8	4,4'-DDD [a]	ND	0.75	0.69	ug/kg	
72-55-9	4,4'-DDE	ND	0.75	0.66	ug/kg	
50-29-3	4,4'-DDT	ND	0.75	0.66	ug/kg	
72-20-8	Endrin	ND	0.75	0.58	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.75	0.58	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.75	0.42	ug/kg	
959-98-8	Endosulfan-I	ND	0.75	0.43	ug/kg	
33213-65-9	Endosulfan-II	ND	0.75	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.75	0.65	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.75	0.52	ug/kg	
72-43-5	Methoxychlor [a]	ND	1.5	0.60	ug/kg	
53494-70-5	Endrin ketone	ND	0.75	0.54	ug/kg	
8001-35-2	Toxaphene	ND	19	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		27-138%
877-09-8	Tetrachloro-m-xylene	63%		27-138%
2051-24-3	Decachlorobiphenyl	1005% [b]		10-179%
2051-24-3	Decachlorobiphenyl	526% [b]		10-179%

(a) This compound outside control limits biased high in the associated BS.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3A (0-2)		
Lab Sample ID:	JD29690-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	87.4
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2428.D	1	08/11/21 22:36	TC	08/11/21 11:50	OP34821	GRK67
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	17	ug/kg	
11104-28-2	Aroclor 1221	ND	37	23	ug/kg	
11141-16-5	Aroclor 1232	ND	37	24	ug/kg	
53469-21-9	Aroclor 1242	ND	37	15	ug/kg	
12672-29-6	Aroclor 1248	ND	37	33	ug/kg	
11097-69-1	Aroclor 1254	ND	37	20	ug/kg	
11096-82-5	Aroclor 1260	ND	37	16	ug/kg	
11100-14-4	Aroclor 1268	ND	37	16	ug/kg	
37324-23-5	Aroclor 1262	ND	37	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		24-152%
877-09-8	Tetrachloro-m-xylene	98%		24-152%
2051-24-3	Decachlorobiphenyl	585% [a]		10-172%
2051-24-3	Decachlorobiphenyl	841% [a]		10-172%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3A (0-2)		
Lab Sample ID:	JD29690-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	87.4
Project:	HK2550, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	11900	58	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Antimony	< 2.3	2.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic	10.3	2.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	265	23	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium [a]	1.2	1.2	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Cadmium	0.72	0.58	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Calcium	113000	2900	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Chromium	15.5	1.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Cobalt	6.5	5.8	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Copper	24.4	2.9	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Iron	17700	58	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Lead	131	2.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Magnesium	10800	580	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Manganese	803	1.8	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Mercury	< 0.032	0.032	mg/kg	1	08/13/21	08/13/21	LM	SW846 7471B [1]	SW846 7471B [5]
Nickel	16.5	4.7	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Potassium	1650	1200	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium	< 2.3	2.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Silver [a]	< 2.9	2.9	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Sodium	< 1200	1200	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium	< 1.2	1.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium	18.0	5.8	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc	97.6	5.8	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA50977
(2) Instrument QC Batch: MA50984
(3) Instrument QC Batch: MA50994
(4) Prep QC Batch: MP28052
(5) Prep QC Batch: MP28066

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S3A (0-2)		
Lab Sample ID:	JD29690-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	87.4
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.67	0.27	mg/kg	1	08/11/21 22:46	EB	SW846 9012B/LACHAT
Solids, Percent	87.4		%	1	08/11/21 16:13	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S3B (2.5-4.5)		
Lab Sample ID:	JD29690-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	85.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C168448.D	1	08/12/21 19:59	PS	08/11/21 09:00	n/a	V3C7456
Run #2							

	Initial Weight
Run #1	5.6 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	55.5	10	4.3	ug/kg	
71-43-2	Benzene	ND	0.52	0.48	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	0.59	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.45	ug/kg	
75-25-2	Bromoform	ND	5.2	1.4	ug/kg	
74-83-9	Bromomethane [a]	ND	5.2	0.80	ug/kg	
78-93-3	2-Butanone (MEK)	10.3	10	2.5	ug/kg	
75-15-0	Carbon disulfide	ND	2.1	0.56	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	0.65	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.48	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.62	ug/kg	
67-66-3	Chloroform	ND	2.1	0.54	ug/kg	
74-87-3	Chloromethane	ND	5.2	2.1	ug/kg	
110-82-7	Cyclohexane	ND	2.1	0.69	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.1	0.73	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.59	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.44	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.57	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.52	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.52	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	0.76	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.52	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.49	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.69	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.88	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.64	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.50	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.50	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.48	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.47	ug/kg	
76-13-1	Freon 113	ND	5.2	2.8	ug/kg	
591-78-6	2-Hexanone	ND	5.2	2.2	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3B (2.5-4.5)		
Lab Sample ID:	JD29690-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	85.3
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.1	1.5	ug/kg	
79-20-9	Methyl Acetate	ND	5.2	1.5	ug/kg	
108-87-2	Methylcyclohexane	ND	2.1	0.92	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.49	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	2.4	ug/kg	
75-09-2	Methylene chloride	ND	5.2	2.7	ug/kg	
100-42-5	Styrene	ND	2.1	0.42	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.63	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.61	ug/kg	
108-88-3	Toluene	1.1	1.0	0.55	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	2.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	2.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.51	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.58	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.80	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	0.72	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.50	ug/kg	
	m,p-Xylene	ND	1.0	0.94	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.48	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.48	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-130%
17060-07-0	1,2-Dichloroethane-D4	98%		75-131%
2037-26-5	Toluene-D8	99%		81-121%
460-00-4	4-Bromofluorobenzene	103%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3B (2.5-4.5)		
Lab Sample ID:	JD29690-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z150667.D	1	08/12/21 09:01	CS	08/11/21 16:00	OP34825	EZ7488
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	77	19	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	68	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	41	ug/kg	
95-48-7	2-Methylphenol	ND	77	24	ug/kg	
	3&4-Methylphenol	ND	77	31	ug/kg	
88-75-5	2-Nitrophenol	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol	ND	380	100	ug/kg	
87-86-5	Pentachlorophenol	ND	150	36	ug/kg	
108-95-2	Phenol	ND	77	20	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	29	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	23	ug/kg	
83-32-9	Acenaphthene	25.6	38	13	ug/kg	J
208-96-8	Acenaphthylene	33.6	38	19	ug/kg	J
98-86-2	Acetophenone	ND	190	8.2	ug/kg	
120-12-7	Anthracene	87.8	38	23	ug/kg	
1912-24-9	Atrazine	ND	77	16	ug/kg	
56-55-3	Benzo(a)anthracene	402	38	11	ug/kg	
50-32-8	Benzo(a)pyrene	347	38	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	442	38	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	205	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	168	38	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	77	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	77	9.3	ug/kg	
92-52-4	1,1'-Biphenyl	7.0	77	5.2	ug/kg	J
100-52-7	Benzaldehyde	ND	190	9.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	77	9.1	ug/kg	
106-47-8	4-Chloroaniline	ND	190	14	ug/kg	
86-74-8	Carbazole	46.1	77	5.6	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3B (2.5-4.5)		
Lab Sample ID:	JD29690-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.3
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	77	15	ug/kg	
218-01-9	Chrysene	461	38	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	77	8.2	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	77	17	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	77	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	77	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	38	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	38	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	77	32	ug/kg	
123-91-1	1,4-Dioxane	ND	38	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	58.4	38	17	ug/kg	
132-64-9	Dibenzofuran	27.3	77	16	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	77	6.2	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	77	9.5	ug/kg	
84-66-2	Diethyl phthalate	ND	77	8.2	ug/kg	
131-11-3	Dimethyl phthalate	ND	77	6.8	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	15.2	77	9.0	ug/kg	J
206-44-0	Fluoranthene	857	38	17	ug/kg	
86-73-7	Fluorene	32.6	38	18	ug/kg	J
118-74-1	Hexachlorobenzene	ND	77	9.7	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	236	38	18	ug/kg	
78-59-1	Isophorone	ND	77	8.2	ug/kg	
91-57-6	2-Methylnaphthalene	26.4	38	8.7	ug/kg	J
88-74-4	2-Nitroaniline	ND	190	9.0	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.6	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.9	ug/kg	
91-20-3	Naphthalene	53.0	38	11	ug/kg	
98-95-3	Nitrobenzene	ND	77	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	77	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	438	38	13	ug/kg	
129-00-0	Pyrene	717	38	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3B (2.5-4.5)		
Lab Sample ID:	JD29690-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	85.3
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	47%		12-101%
118-79-6	2,4,6-Tribromophenol	45%		10-127%
4165-60-0	Nitrobenzene-d5	54%		15-114%
321-60-8	2-Fluorobiphenyl	60%		22-104%
1718-51-0	Terphenyl-d14	60%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.65	470	ug/kg	J
	system artifact/aldol-condensation	3.29	160	ug/kg	J
	unknown	9.14	200	ug/kg	J
10544-50-0	Cyclic octaatomic sulfur	10.03	820	ug/kg	JN
	unknown PAH substance	14.06	220	ug/kg	J
	Total TIC, Semi-Volatile		1240	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3B (2.5-4.5)		
Lab Sample ID:	JD29690-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	85.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G169080.D	1	08/19/21 17:47	TC	08/19/21 09:30	OP34925	G1G5787
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.76	0.62	ug/kg	
319-84-6	alpha-BHC	ND	0.76	0.61	ug/kg	
319-85-7	beta-BHC	ND	0.76	0.68	ug/kg	
319-86-8	delta-BHC	ND	0.76	0.73	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.76	0.56	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.76	0.61	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.76	0.34	ug/kg	
60-57-1	Dieldrin	ND	0.76	0.52	ug/kg	
72-54-8	4,4'-DDD	ND	0.76	0.69	ug/kg	
72-55-9	4,4'-DDE [a]	7.1	0.76	0.66	ug/kg	
50-29-3	4,4'-DDT [a]	4.6	0.76	0.67	ug/kg	
72-20-8	Endrin	ND	0.76	0.59	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.76	0.59	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.76	0.43	ug/kg	
959-98-8	Endosulfan-I	ND	0.76	0.44	ug/kg	
33213-65-9	Endosulfan-II	ND	0.76	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.76	0.65	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.76	0.53	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.60	ug/kg	
53494-70-5	Endrin ketone	ND	0.76	0.55	ug/kg	
8001-35-2	Toxaphene	ND	19	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		27-138%
877-09-8	Tetrachloro-m-xylene	81%		27-138%
2051-24-3	Decachlorobiphenyl	79%		10-179%
2051-24-3	Decachlorobiphenyl	133%		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3B (2.5-4.5)		
Lab Sample ID:	JD29690-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	85.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2429.D	1	08/11/21 22:53	TC	08/11/21 11:50	OP34821	GRK67
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	17	ug/kg	
11104-28-2	Aroclor 1221	ND	37	23	ug/kg	
11141-16-5	Aroclor 1232	ND	37	24	ug/kg	
53469-21-9	Aroclor 1242	ND	37	15	ug/kg	
12672-29-6	Aroclor 1248	ND	37	33	ug/kg	
11097-69-1	Aroclor 1254	ND	37	20	ug/kg	
11096-82-5	Aroclor 1260	ND	37	16	ug/kg	
11100-14-4	Aroclor 1268	ND	37	16	ug/kg	
37324-23-5	Aroclor 1262	ND	37	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	76%		24-152%
877-09-8	Tetrachloro-m-xylene	83%		24-152%
2051-24-3	Decachlorobiphenyl	60%		10-172%
2051-24-3	Decachlorobiphenyl	219% [a]		10-172%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S3B (2.5-4.5)		
Lab Sample ID:	JD29690-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	85.3
Project:	HK2550, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	5970	60	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Antimony	< 2.4	2.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	3.8	2.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	45.0	24	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.37	0.24	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.60	0.60	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Calcium	19900	600	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	8.5	1.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cobalt	< 6.0	6.0	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	15.8	3.0	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Iron	12600	60	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	30.2	2.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Magnesium	7410	600	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Manganese	225	1.8	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.046	0.036	mg/kg	1	08/13/21	08/13/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	11.9	4.8	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Potassium	< 1200	1200	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.4	2.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.60	0.60	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	14.8	6.0	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	67.4	6.0	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA50977
(2) Instrument QC Batch: MA50984
(3) Prep QC Batch: MP28052
(4) Prep QC Batch: MP28066

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S3B (2.5-4.5)		
Lab Sample ID:	JD29690-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	85.3
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.25	0.25	mg/kg	1	08/11/21 22:47	EB	SW846 9012B/LACHAT
Solids, Percent	85.3		%	1	08/11/21 16:13	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S4B (3.5)		
Lab Sample ID:	JD29690-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	90.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C168449.D	1	08/12/21 20:25	PS	08/11/21 09:00	n/a	V3C7456
Run #2							

	Initial Weight
Run #1	4.9 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	9.0	11	4.7	ug/kg	J
71-43-2	Benzene	ND	0.57	0.51	ug/kg	
74-97-5	Bromochloromethane	ND	5.7	0.63	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	0.48	ug/kg	
75-25-2	Bromoform	ND	5.7	1.5	ug/kg	
74-83-9	Bromomethane [a]	ND	5.7	0.86	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.7	ug/kg	
75-15-0	Carbon disulfide	ND	2.3	0.60	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	0.70	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	0.52	ug/kg	
75-00-3	Chloroethane	ND	5.7	0.67	ug/kg	
67-66-3	Chloroform	ND	2.3	0.59	ug/kg	
74-87-3	Chloromethane	ND	5.7	2.2	ug/kg	
110-82-7	Cyclohexane	ND	2.3	0.74	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.3	0.78	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	0.63	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.48	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.62	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.56	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.56	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.7	0.82	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.56	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.53	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.74	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.95	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.69	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	0.53	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	0.54	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	0.52	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.51	ug/kg	
76-13-1	Freon 113	ND	5.7	3.0	ug/kg	
591-78-6	2-Hexanone	ND	5.7	2.4	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S4B (3.5)		
Lab Sample ID:	JD29690-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	90.3
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.3	1.6	ug/kg	
79-20-9	Methyl Acetate	ND	5.7	1.6	ug/kg	
108-87-2	Methylcyclohexane	ND	2.3	0.99	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.53	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.7	2.6	ug/kg	
75-09-2	Methylene chloride	ND	5.7	2.9	ug/kg	
100-42-5	Styrene	ND	2.3	0.45	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	0.68	ug/kg	
127-18-4	Tetrachloroethene	ND	2.3	0.66	ug/kg	
108-88-3	Toluene	1.0	1.1	0.59	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	2.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	2.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	0.55	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	0.63	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.86	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.7	0.77	ug/kg	
75-01-4	Vinyl chloride	ND	2.3	0.54	ug/kg	
	m,p-Xylene	ND	1.1	1.0	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.52	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.52	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		72-130%
17060-07-0	1,2-Dichloroethane-D4	96%		75-131%
2037-26-5	Toluene-D8	100%		81-121%
460-00-4	4-Bromofluorobenzene	104%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S4B (3.5)		
Lab Sample ID:	JD29690-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z150671.D	1	08/12/21 10:45	CS	08/11/21 16:00	OP34825	EZ7488
Run #2	Z150693.D	5	08/12/21 22:26	BL	08/11/21 16:00	OP34825	EZ7489

	Initial Weight	Final Volume
Run #1	31.2 g	1.0 ml
Run #2	31.2 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	71	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	30	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	63	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	38	ug/kg	
95-48-7	2-Methylphenol	ND	71	23	ug/kg	
	3&4-Methylphenol	ND	71	29	ug/kg	
88-75-5	2-Nitrophenol	ND	180	23	ug/kg	
100-02-7	4-Nitrophenol	ND	350	95	ug/kg	
87-86-5	Pentachlorophenol	ND	140	33	ug/kg	
108-95-2	Phenol	ND	71	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	21	ug/kg	
83-32-9	Acenaphthene	330	35	12	ug/kg	
208-96-8	Acenaphthylene	30.1	35	18	ug/kg	J
98-86-2	Acetophenone	ND	180	7.6	ug/kg	
120-12-7	Anthracene	976	35	22	ug/kg	
1912-24-9	Atrazine	ND	71	15	ug/kg	
56-55-3	Benzo(a)anthracene	2740	35	10	ug/kg	
50-32-8	Benzo(a)pyrene	2420	35	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	3230	35	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	685	35	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	1100	35	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	71	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	8.7	ug/kg	
92-52-4	1,1'-Biphenyl	32.6	71	4.9	ug/kg	J
100-52-7	Benzaldehyde	ND	180	8.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	8.4	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	496	71	5.1	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S4B (3.5)		
Lab Sample ID:	JD29690-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.3
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	71	14	ug/kg	
218-01-9	Chrysene	2550	35	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	71	7.6	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	71	15	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	71	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	71	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	35	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	35	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	71	30	ug/kg	
123-91-1	1,4-Dioxane	ND	35	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	236	35	16	ug/kg	
132-64-9	Dibenzofuran	192	71	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	71	5.8	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	71	8.8	ug/kg	
84-66-2	Diethyl phthalate	ND	71	7.6	ug/kg	
131-11-3	Dimethyl phthalate	ND	71	6.3	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	71	8.3	ug/kg	
206-44-0	Fluoranthene	4400 [b]	180	79	ug/kg	
86-73-7	Fluorene	337	35	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	71	9.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	14	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	894	35	17	ug/kg	
78-59-1	Isophorone	ND	71	7.6	ug/kg	
91-57-6	2-Methylnaphthalene	96.8	35	8.0	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.4	ug/kg	
99-09-2	3-Nitroaniline	ND	180	8.9	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.2	ug/kg	
91-20-3	Naphthalene	198	35	10	ug/kg	
98-95-3	Nitrobenzene	ND	71	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	3150 [b]	180	60	ug/kg	
129-00-0	Pyrene	3910 [b]	180	57	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	55%	56%	7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S4B (3.5)		
Lab Sample ID:	JD29690-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	90.3
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	56%	61%	12-101%
118-79-6	2,4,6-Tribromophenol	16%	12%	10-127%
4165-60-0	Nitrobenzene-d5	66%	62%	15-114%
321-60-8	2-Fluorobiphenyl	73%	57%	22-104%
1718-51-0	Terphenyl-d14	69%	66%	23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.65	530	ug/kg	J
	system artifact/aldol-condensation	3.31	9600	ug/kg	J
486-25-9	9H-Fluoren-9-one	8.12	210	ug/kg	JN
	Phenanthrene methyl	9.00	430	ug/kg	J
	Phenanthrene methyl	9.03	620	ug/kg	J
	Phenanthrene methyl	9.10	300	ug/kg	J
203-64-5	4H-Cyclopenta[def]phenanthrene	9.14	830	ug/kg	JN
	Phenanthrene methyl	9.17	310	ug/kg	J
	-Phenylnaphthalene	9.42	560	ug/kg	J
	Phenanthrene dimethyl	9.76	270	ug/kg	J
	unknown	9.81	220	ug/kg	J
	unknown	9.86	270	ug/kg	J
	Phenanthrene dimethyl	9.89	170	ug/kg	J
	unknown	10.18	280	ug/kg	J
	Pyrene methyl	10.80	330	ug/kg	J
	Pyrene methyl	10.90	180	ug/kg	J
	unknown	11.79	170	ug/kg	J
	Chrysene methyl	12.76	180	ug/kg	J
	unknown	13.24	250	ug/kg	J
	unknown	13.49	190	ug/kg	J
	unknown	13.64	180	ug/kg	J
	unknown PAH substance	13.84	660	ug/kg	J
	unknown	14.00	470	ug/kg	J
	unknown PAH substance	14.08	1600	ug/kg	J
	unknown	14.58	230	ug/kg	J
	unknown	15.42	340	ug/kg	J
	-Dibenzophenanthrene	15.70	170	ug/kg	J
	Total TIC, Semi-Volatile		9420	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S4B (3.5)		
Lab Sample ID:	JD29690-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	90.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G78864.D	1	08/12/21 02:51	CP	08/11/21 11:50	OP34822	G6G2764
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.73	0.60	ug/kg	
319-84-6	alpha-BHC	ND	0.73	0.59	ug/kg	
319-85-7	beta-BHC	ND	0.73	0.66	ug/kg	
319-86-8	delta-BHC	ND	0.73	0.70	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.73	0.53	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.73	0.59	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.73	0.33	ug/kg	
60-57-1	Dieldrin	ND	0.73	0.50	ug/kg	
72-54-8	4,4'-DDD [a]	ND	0.73	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	0.73	0.64	ug/kg	
50-29-3	4,4'-DDT	ND	0.73	0.64	ug/kg	
72-20-8	Endrin	ND	0.73	0.56	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.73	0.57	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.73	0.41	ug/kg	
959-98-8	Endosulfan-I	ND	0.73	0.42	ug/kg	
33213-65-9	Endosulfan-II	ND	0.73	0.45	ug/kg	
76-44-8	Heptachlor	ND	0.73	0.63	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.73	0.51	ug/kg	
72-43-5	Methoxychlor [a]	ND	1.5	0.58	ug/kg	
53494-70-5	Endrin ketone	ND	0.73	0.52	ug/kg	
8001-35-2	Toxaphene	ND	18	17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	105%		27-138%
877-09-8	Tetrachloro-m-xylene	83%		27-138%
2051-24-3	Decachlorobiphenyl	144%		10-179%
2051-24-3	Decachlorobiphenyl	187% [b]		10-179%

(a) This compound outside control limits biased high in the associated BS.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S4B (3.5)		
Lab Sample ID:	JD29690-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	90.3
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2467.D	1	08/12/21 10:44	TC	08/11/21 11:50	OP34821	GRK68
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	17	ug/kg	
11104-28-2	Aroclor 1221	ND	36	22	ug/kg	
11141-16-5	Aroclor 1232	ND	36	23	ug/kg	
53469-21-9	Aroclor 1242	ND	36	15	ug/kg	
12672-29-6	Aroclor 1248	ND	36	32	ug/kg	
11097-69-1	Aroclor 1254	ND	36	19	ug/kg	
11096-82-5	Aroclor 1260	ND	36	15	ug/kg	
11100-14-4	Aroclor 1268	ND	36	15	ug/kg	
37324-23-5	Aroclor 1262	ND	36	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		24-152%
877-09-8	Tetrachloro-m-xylene	113%		24-152%
2051-24-3	Decachlorobiphenyl	70%		10-172%
2051-24-3	Decachlorobiphenyl	246% [a]		10-172%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S4B (3.5)		
Lab Sample ID:	JD29690-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	90.3
Project:	HK2550, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10900	56	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Antimony	< 2.2	2.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic	11.0	2.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	98.7	22	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium [a]	< 1.1	1.1	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Cadmium	< 0.56	0.56	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Calcium	82000	2800	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Chromium	15.8	1.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Cobalt	< 5.6	5.6	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Copper	18.6	2.8	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Iron	16200	56	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Lead	176	2.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Magnesium	5160	560	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Manganese	483	1.7	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Mercury	0.49	0.034	mg/kg	1	08/13/21	08/13/21	LM	SW846 7471B [1]	SW846 7471B [5]
Nickel	14.5	4.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Potassium	1310	1100	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium	< 2.2	2.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Silver [a]	< 2.8	2.8	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Sodium	< 1100	1100	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium	17.4	5.6	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc	64.5	5.6	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA50977
(2) Instrument QC Batch: MA50984
(3) Instrument QC Batch: MA50994
(4) Prep QC Batch: MP28052
(5) Prep QC Batch: MP28066

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S4B (3.5)		
Lab Sample ID:	JD29690-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	90.3
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.86	0.25	mg/kg	1	08/11/21 22:48	EB	SW846 9012B/LACHAT
Solids, Percent	90.3		%	1	08/11/21 16:13	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S5B (3-5)		
Lab Sample ID:	JD29690-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	80.8
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C168450.D	1	08/12/21 20:51	PS	08/11/21 09:00	n/a	V3C7456
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	92.7	12	5.1	ug/kg	
71-43-2	Benzene	ND	0.62	0.56	ug/kg	
74-97-5	Bromochloromethane	ND	6.2	0.69	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.53	ug/kg	
75-25-2	Bromoform	ND	6.2	1.7	ug/kg	
74-83-9	Bromomethane [a]	ND	6.2	0.95	ug/kg	
78-93-3	2-Butanone (MEK)	100	12	3.0	ug/kg	
75-15-0	Carbon disulfide	1.2	2.5	0.66	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.5	0.76	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.57	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.73	ug/kg	
67-66-3	Chloroform	ND	2.5	0.64	ug/kg	
74-87-3	Chloromethane	ND	6.2	2.4	ug/kg	
110-82-7	Cyclohexane	ND	2.5	0.81	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.86	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.69	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.52	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.68	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.61	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.61	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	0.90	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.61	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.58	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.81	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.76	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.59	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.59	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.57	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.56	ug/kg	
76-13-1	Freon 113	ND	6.2	3.3	ug/kg	
591-78-6	2-Hexanone	ND	6.2	2.6	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S5B (3-5)		
Lab Sample ID:	JD29690-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	80.8
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.5	1.8	ug/kg	
79-20-9	Methyl Acetate	ND	6.2	1.7	ug/kg	
108-87-2	Methylcyclohexane	ND	2.5	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.58	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.2	2.8	ug/kg	
75-09-2	Methylene chloride	ND	6.2	3.2	ug/kg	
100-42-5	Styrene	ND	2.5	0.50	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.74	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.72	ug/kg	
108-88-3	Toluene	2.0	1.2	0.65	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	3.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	3.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.60	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.69	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.94	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	0.85	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.60	ug/kg	
	m,p-Xylene	ND	1.2	1.1	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.57	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		72-130%
17060-07-0	1,2-Dichloroethane-D4	97%		75-131%
2037-26-5	Toluene-D8	100%		81-121%
460-00-4	4-Bromofluorobenzene	105%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S5B (3-5)		
Lab Sample ID:	JD29690-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	80.8
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z150668.D	1	08/12/21 09:27	CS	08/11/21 16:00	OP34825	EZ7488
Run #2							

	Initial Weight	Final Volume
Run #1	31.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	79	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	24	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	34	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	71	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	200	42	ug/kg	
95-48-7	2-Methylphenol	ND	79	25	ug/kg	
	3&4-Methylphenol	ND	79	33	ug/kg	
88-75-5	2-Nitrophenol	ND	200	26	ug/kg	
100-02-7	4-Nitrophenol	ND	400	110	ug/kg	
87-86-5	Pentachlorophenol	ND	160	37	ug/kg	
108-95-2	Phenol	ND	79	21	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	30	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	24	ug/kg	
83-32-9	Acenaphthene	ND	40	14	ug/kg	
208-96-8	Acenaphthylene	ND	40	20	ug/kg	
98-86-2	Acetophenone	ND	200	8.5	ug/kg	
120-12-7	Anthracene	ND	40	24	ug/kg	
1912-24-9	Atrazine	ND	79	17	ug/kg	
56-55-3	Benzo(a)anthracene	47.5	40	11	ug/kg	
50-32-8	Benzo(a)pyrene	39.9	40	18	ug/kg	J
205-99-2	Benzo(b)fluoranthene	45.8	40	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	30.1	40	20	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	40	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	79	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	79	9.7	ug/kg	
92-52-4	1,1'-Biphenyl	ND	79	5.4	ug/kg	
100-52-7	Benzaldehyde	65.3	200	9.8	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	79	9.4	ug/kg	
106-47-8	4-Chloroaniline	ND	200	14	ug/kg	
86-74-8	Carbazole	ND	79	5.8	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S5B (3-5)		
Lab Sample ID:	JD29690-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	80.8
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	79	16	ug/kg	
218-01-9	Chrysene	44.9	40	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	79	8.5	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	79	17	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	79	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	79	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	40	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	40	20	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	79	33	ug/kg	
123-91-1	1,4-Dioxane	ND	40	26	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	40	18	ug/kg	
132-64-9	Dibenzofuran	ND	79	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	79	6.5	ug/kg	
117-84-0	Di-n-octyl phthalate [a]	ND	79	9.9	ug/kg	
84-66-2	Diethyl phthalate	ND	79	8.4	ug/kg	
131-11-3	Dimethyl phthalate	ND	79	7.1	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	51.8	79	9.3	ug/kg	J
206-44-0	Fluoranthene	74.6	40	18	ug/kg	
86-73-7	Fluorene	ND	40	18	ug/kg	
118-74-1	Hexachlorobenzene	ND	79	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	40	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	400	16	ug/kg	
67-72-1	Hexachloroethane	ND	200	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	31.9	40	19	ug/kg	J
78-59-1	Isophorone	ND	79	8.5	ug/kg	
91-57-6	2-Methylnaphthalene	9.9	40	9.0	ug/kg	J
88-74-4	2-Nitroaniline	ND	200	9.4	ug/kg	
99-09-2	3-Nitroaniline	ND	200	9.9	ug/kg	
100-01-6	4-Nitroaniline	ND	200	10	ug/kg	
91-20-3	Naphthalene	18.4	40	11	ug/kg	J
98-95-3	Nitrobenzene	ND	79	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	79	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	15	ug/kg	
85-01-8	Phenanthrene	38.8	40	13	ug/kg	J
129-00-0	Pyrene	54.6	40	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	45%		7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S5B (3-5)		
Lab Sample ID:	JD29690-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	80.8
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	40%		12-101%
118-79-6	2,4,6-Tribromophenol	39%		10-127%
4165-60-0	Nitrobenzene-d5	49%		15-114%
321-60-8	2-Fluorobiphenyl	55%		22-104%
1718-51-0	Terphenyl-d14	52%		23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.65	500	ug/kg	J
13798-23-7	Sulfur	7.05	610	ug/kg	JN
	unknown	8.57	410	ug/kg	J
10544-50-0	Cyclic octaatomic sulfur	9.12	210	ug/kg	JN
	unknown acid	9.15	190	ug/kg	J
	unknown	9.19	220	ug/kg	J
	unknown	9.33	1500	ug/kg	J
	unknown	9.51	20000	ug/kg	J
	unknown	9.65	220	ug/kg	J
	Sulfur	9.78	570	ug/kg	J
10544-50-0	Cyclic octaatomic sulfur	10.09	12000	ug/kg	JN
483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	10.78	4900	ug/kg	JN
	unknown	11.20	390	ug/kg	J
	unknown	13.17	240	ug/kg	J
	unknown	15.67	230	ug/kg	J
	unknown	15.99	200	ug/kg	J
	-Sitosterol	16.10	3700	ug/kg	J
19466-47-8	Stigmastanol	16.17	1500	ug/kg	JN
	unknown	16.37	310	ug/kg	J
	unknown	16.57	270	ug/kg	J
	unknown	16.83	300	ug/kg	J
	unknown	16.91	810	ug/kg	J
	Total TIC, Semi-Volatile		48780	ug/kg	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S5B (3-5)		
Lab Sample ID:	JD29690-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	80.8
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G169054.D	1	08/18/21 13:15	TC	08/11/21 11:50	OP34956	G1G5784
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.79	0.65	ug/kg	
319-84-6	alpha-BHC	ND	0.79	0.64	ug/kg	
319-85-7	beta-BHC	ND	0.79	0.72	ug/kg	
319-86-8	delta-BHC	ND	0.79	0.76	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.79	0.58	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.79	0.64	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.79	0.36	ug/kg	
60-57-1	Dieldrin	ND	0.79	0.55	ug/kg	
72-54-8	4,4'-DDD	ND	0.79	0.73	ug/kg	
72-55-9	4,4'-DDE	ND	0.79	0.70	ug/kg	
50-29-3	4,4'-DDT [a]	0.78	0.79	0.70	ug/kg	J
72-20-8	Endrin	ND	0.79	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.79	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.79	0.45	ug/kg	
959-98-8	Endosulfan-I	ND	0.79	0.46	ug/kg	
33213-65-9	Endosulfan-II	ND	0.79	0.50	ug/kg	
76-44-8	Heptachlor	ND	0.79	0.68	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.79	0.56	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.63	ug/kg	
53494-70-5	Endrin ketone	ND	0.79	0.57	ug/kg	
8001-35-2	Toxaphene	ND	20	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	72%		27-138%
877-09-8	Tetrachloro-m-xylene	71%		27-138%
2051-24-3	Decachlorobiphenyl	77%		10-179%
2051-24-3	Decachlorobiphenyl	94%		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S5B (3-5)		
Lab Sample ID:	JD29690-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	80.8
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2468.D	1	08/12/21 11:00	TC	08/11/21 11:50	OP34821	GRK68
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	19	ug/kg	
11104-28-2	Aroclor 1221	ND	40	25	ug/kg	
11141-16-5	Aroclor 1232	ND	40	26	ug/kg	
53469-21-9	Aroclor 1242	ND	40	16	ug/kg	
12672-29-6	Aroclor 1248	ND	40	36	ug/kg	
11097-69-1	Aroclor 1254	ND	40	22	ug/kg	
11096-82-5	Aroclor 1260	ND	40	17	ug/kg	
11100-14-4	Aroclor 1268	ND	40	17	ug/kg	
37324-23-5	Aroclor 1262	ND	40	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	57%		24-152%
877-09-8	Tetrachloro-m-xylene	62%		24-152%
2051-24-3	Decachlorobiphenyl	41%		10-172%
2051-24-3	Decachlorobiphenyl	71%		10-172%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S5B (3-5)		
Lab Sample ID:	JD29690-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	80.8
Project:	HK2550, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	7410	63	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Antimony	< 2.5	2.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic	7.9	2.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	55.3	25	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium [a]	< 1.3	1.3	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Cadmium	< 0.63	0.63	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Calcium	41700	3100	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Chromium	9.9	1.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Cobalt	< 6.3	6.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Copper	14.3	3.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Iron	17400	63	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Lead	40.1	2.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Magnesium	9850	630	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Manganese	393	1.9	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Mercury	< 0.038	0.038	mg/kg	1	08/13/21	08/13/21	LM	SW846 7471B [1]	SW846 7471B [5]
Nickel	14.2	5.0	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Potassium	1380	1300	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium	< 2.5	2.5	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Silver	0.71	0.63	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Sodium	< 1300	1300	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium	< 1.3	1.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium	13.9	6.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc	86.3	6.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA50977
(2) Instrument QC Batch: MA50984
(3) Instrument QC Batch: MA50994
(4) Prep QC Batch: MP28052
(5) Prep QC Batch: MP28066

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S5B (3-5)		
Lab Sample ID:	JD29690-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	80.8
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.90	0.25	mg/kg	1	08/11/21 22:50	EB	SW846 9012B/LACHAT
Solids, Percent	80.8		%	1	08/11/21 16:13	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S6B (3-5)		
Lab Sample ID:	JD29690-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	80.9
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C168451.D	1	08/12/21 21:17	PS	08/11/21 09:00	n/a	V3C7456
Run #2							

	Initial Weight
Run #1	4.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	73.0	15	6.4	ug/kg	
71-43-2	Benzene	ND	0.77	0.70	ug/kg	
74-97-5	Bromochloromethane	ND	7.7	0.87	ug/kg	
75-27-4	Bromodichloromethane	ND	3.1	0.66	ug/kg	
75-25-2	Bromoform	ND	7.7	2.1	ug/kg	
74-83-9	Bromomethane [a]	ND	7.7	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	13.6	15	3.8	ug/kg	J
75-15-0	Carbon disulfide	ND	3.1	0.83	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.1	0.95	ug/kg	
108-90-7	Chlorobenzene	ND	3.1	0.71	ug/kg	
75-00-3	Chloroethane	ND	7.7	0.91	ug/kg	
67-66-3	Chloroform	ND	3.1	0.80	ug/kg	
74-87-3	Chloromethane	ND	7.7	3.0	ug/kg	
110-82-7	Cyclohexane	ND	3.1	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	3.1	0.87	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.5	0.65	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.5	0.84	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.5	0.77	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.5	0.76	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.7	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.5	0.76	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.5	0.73	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.5	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.5	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.94	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.1	0.73	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	0.73	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	0.71	ug/kg	
100-41-4	Ethylbenzene	ND	1.5	0.70	ug/kg	
76-13-1	Freon 113	ND	7.7	4.1	ug/kg	
591-78-6	2-Hexanone	ND	7.7	3.3	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S6B (3-5)		
Lab Sample ID:	JD29690-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	80.9
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	3.1	2.2	ug/kg	
79-20-9	Methyl Acetate	ND	7.7	2.1	ug/kg	
108-87-2	Methylcyclohexane	ND	3.1	1.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.5	0.72	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.7	3.5	ug/kg	
75-09-2	Methylene chloride	ND	7.7	4.0	ug/kg	
100-42-5	Styrene	ND	3.1	0.62	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.1	0.93	ug/kg	
127-18-4	Tetrachloroethene	ND	3.1	0.90	ug/kg	
108-88-3	Toluene	5.5	1.5	0.81	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.7	3.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.7	3.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.1	0.75	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.1	0.86	ug/kg	
79-01-6	Trichloroethene	ND	1.5	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.7	1.1	ug/kg	
75-01-4	Vinyl chloride	ND	3.1	0.74	ug/kg	
	m,p-Xylene	ND	1.5	1.4	ug/kg	
95-47-6	o-Xylene	ND	1.5	0.71	ug/kg	
1330-20-7	Xylene (total)	ND	1.5	0.71	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		72-130%
17060-07-0	1,2-Dichloroethane-D4	96%		75-131%
2037-26-5	Toluene-D8	101%		81-121%
460-00-4	4-Bromofluorobenzene	103%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S6B (3-5)		
Lab Sample ID:	JD29690-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	80.9
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Z150673.D	2	08/12/21 11:37	CS	08/11/21 16:00	OP34825	EZ7488
Run #2	Z150688.D	20	08/12/21 20:13	BL	08/11/21 16:00	OP34825	EZ7489

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2	30.8 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	40	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	400	49	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	400	68	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	400	140	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	400	300	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	400	86	ug/kg	
95-48-7	2-Methylphenol	ND	160	51	ug/kg	
	3&4-Methylphenol	74.3	160	66	ug/kg	J
88-75-5	2-Nitrophenol	ND	400	53	ug/kg	
100-02-7	4-Nitrophenol	ND	800	210	ug/kg	
87-86-5	Pentachlorophenol	ND	320	75	ug/kg	
108-95-2	Phenol	ND	160	42	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	400	53	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	400	60	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	400	48	ug/kg	
83-32-9	Acenaphthene	1720	80	28	ug/kg	
208-96-8	Acenaphthylene	86.2	80	41	ug/kg	
98-86-2	Acetophenone	ND	400	17	ug/kg	
120-12-7	Anthracene	5350	80	49	ug/kg	
1912-24-9	Atrazine	ND	160	34	ug/kg	
56-55-3	Benzo(a)anthracene	11700 [b]	800	230	ug/kg	
50-32-8	Benzo(a)pyrene	8870 [b]	800	370	ug/kg	
205-99-2	Benzo(b)fluoranthene	10300 [b]	800	350	ug/kg	
191-24-2	Benzo(g,h,i)perylene	4100	80	40	ug/kg	
207-08-9	Benzo(k)fluoranthene	5210	80	37	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	160	31	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	160	20	ug/kg	
92-52-4	1,1'-Biphenyl	128	160	11	ug/kg	J
100-52-7	Benzaldehyde	ND	400	20	ug/kg	
91-58-7	2-Chloronaphthalene	ND	160	19	ug/kg	
106-47-8	4-Chloroaniline	ND	400	29	ug/kg	
86-74-8	Carbazole	1750	160	12	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S6B (3-5)		
Lab Sample ID:	JD29690-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	80.9
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	160	32	ug/kg	
218-01-9	Chrysene	10800 [b]	800	250	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	160	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	160	35	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	160	29	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	26	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	80	25	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	80	40	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	160	67	ug/kg	
123-91-1	1,4-Dioxane	ND	80	53	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1950	80	35	ug/kg	
132-64-9	Dibenzofuran	1040	160	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	160	13	ug/kg	
117-84-0	Di-n-octyl phthalate [c]	ND	160	20	ug/kg	
84-66-2	Diethyl phthalate	ND	160	17	ug/kg	
131-11-3	Dimethyl phthalate	ND	160	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	160	19	ug/kg	
206-44-0	Fluoranthene	22400 [b]	800	360	ug/kg	
86-73-7	Fluorene	1900	80	37	ug/kg	
118-74-1	Hexachlorobenzene	ND	160	20	ug/kg	
87-68-3	Hexachlorobutadiene	ND	80	32	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	800	32	ug/kg	
67-72-1	Hexachloroethane	ND	400	40	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	4960	80	38	ug/kg	
78-59-1	Isophorone	ND	160	17	ug/kg	
91-57-6	2-Methylnaphthalene	507	80	18	ug/kg	
88-74-4	2-Nitroaniline	ND	400	19	ug/kg	
99-09-2	3-Nitroaniline	ND	400	20	ug/kg	
100-01-6	4-Nitroaniline	ND	400	21	ug/kg	
91-20-3	Naphthalene	1170	80	23	ug/kg	
98-95-3	Nitrobenzene	ND	160	31	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	160	23	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	400	29	ug/kg	
85-01-8	Phenanthrene	16900 [b]	800	270	ug/kg	
129-00-0	Pyrene	20900 [b]	800	260	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	400	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%	44%	7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S6B (3-5)		
Lab Sample ID:	JD29690-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	80.9
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	44%	51%	12-101%
118-79-6	2,4,6-Tribromophenol	13%	0% [d]	10-127%
4165-60-0	Nitrobenzene-d5	53%	52%	15-114%
321-60-8	2-Fluorobiphenyl	53%	52%	22-104%
1718-51-0	Terphenyl-d14	48%	60%	23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.30	13000	ug/kg	J
1430-97-3	9H-Fluorene, methyl-	7.90	730	ug/kg	JN
486-25-9	9H-Fluoren-9-one	8.12	790	ug/kg	JN
132-65-0	Dibenzothiophene	8.22	780	ug/kg	JN
	Phenanthrene methyl	9.00	2100	ug/kg	J
	Phenanthrene methyl	9.04	3100	ug/kg	J
	Anthracene methyl	9.10	1500	ug/kg	J
203-64-5	4H-Cyclopenta[def]phenanthrene	9.15	4100	ug/kg	JN
	Phenanthrene methyl	9.18	1600	ug/kg	J
	-Phenylnaphthalene	9.42	2200	ug/kg	J
	Phenanthrene dimethyl	9.77	1300	ug/kg	J
	Phenanthrene dimethyl	9.89	740	ug/kg	J
	unknown	10.18	1200	ug/kg	J
	Pyrene methyl	10.81	860	ug/kg	J
	unknown	13.26	1200	ug/kg	J
	unknown	13.51	760	ug/kg	J
	unknown PAH substance	13.86	2800	ug/kg	J
	unknown	14.01	1600	ug/kg	J
	unknown PAH substance	14.09	6400	ug/kg	J
	unknown	14.47	2500	ug/kg	J
	unknown	14.58	870	ug/kg	J
	unknown	14.79	840	ug/kg	J
	unknown	15.24	710	ug/kg	J
	unknown	15.43	1900	ug/kg	J
	unknown	15.72	1200	ug/kg	J
	unknown	15.75	670	ug/kg	J
	unknown	16.06	2000	ug/kg	J
	Total TIC, Semi-Volatile		44450	ug/kg	J

(a) Dilution required due to viscosity of the extract matrix.
(b) Result is from Run# 2
(c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S6B (3-5)		
Lab Sample ID:	JD29690-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	80.9
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q

(d) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S6B (3-5)		
Lab Sample ID:	JD29690-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	80.9
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G169034.D	1	08/18/21 01:20	CP	08/11/21 11:50	OP34956	G1G5783
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.79	0.65	ug/kg	
319-84-6	alpha-BHC	ND	0.79	0.64	ug/kg	
319-85-7	beta-BHC	ND	0.79	0.72	ug/kg	
319-86-8	delta-BHC	ND	0.79	0.76	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.79	0.58	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.79	0.64	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.79	0.36	ug/kg	
60-57-1	Dieldrin	ND	0.79	0.54	ug/kg	
72-54-8	4,4'-DDD	ND	0.79	0.73	ug/kg	
72-55-9	4,4'-DDE	ND	0.79	0.69	ug/kg	
50-29-3	4,4'-DDT [a]	6.8	0.79	0.70	ug/kg	
72-20-8	Endrin	ND	0.79	0.62	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.79	0.62	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.79	0.45	ug/kg	
959-98-8	Endosulfan-I	ND	0.79	0.46	ug/kg	
33213-65-9	Endosulfan-II	ND	0.79	0.49	ug/kg	
76-44-8	Heptachlor	ND	0.79	0.68	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.79	0.56	ug/kg	
72-43-5	Methoxychlor	19.6	1.6	0.63	ug/kg	
53494-70-5	Endrin ketone	ND	0.79	0.57	ug/kg	
8001-35-2	Toxaphene	ND	20	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		27-138%
877-09-8	Tetrachloro-m-xylene	55%		27-138%
2051-24-3	Decachlorobiphenyl	69%		10-179%
2051-24-3	Decachlorobiphenyl	714% [b]		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S6B (3-5)		
Lab Sample ID:	JD29690-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	80.9
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2469.D	1	08/12/21 11:16	TC	08/11/21 11:50	OP34821	GRK68
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	19	ug/kg	
11104-28-2	Aroclor 1221	ND	40	25	ug/kg	
11141-16-5	Aroclor 1232	ND	40	25	ug/kg	
53469-21-9	Aroclor 1242	ND	40	16	ug/kg	
12672-29-6	Aroclor 1248	ND	40	36	ug/kg	
11097-69-1	Aroclor 1254	ND	40	21	ug/kg	
11096-82-5	Aroclor 1260	ND	40	17	ug/kg	
11100-14-4	Aroclor 1268	ND	40	17	ug/kg	
37324-23-5	Aroclor 1262	ND	40	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		24-152%
877-09-8	Tetrachloro-m-xylene	91%		24-152%
2051-24-3	Decachlorobiphenyl	66%		10-172%
2051-24-3	Decachlorobiphenyl	522% [a]		10-172%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S6B (3-5)		
Lab Sample ID:	JD29690-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	80.9
Project:	HK2550, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	9070	61	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Antimony	< 2.4	2.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic	9.1	2.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	86.4	24	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium [a]	< 1.2	1.2	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Cadmium	0.63	0.61	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Calcium	71600	3000	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Chromium	11.8	1.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Cobalt	< 6.1	6.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Copper	23.3	3.0	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Iron	14400	61	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Lead	241	2.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Magnesium	8980	610	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Manganese	516	1.8	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Mercury	0.82	0.035	mg/kg	1	08/13/21	08/13/21	LM	SW846 7471B [1]	SW846 7471B [5]
Nickel	14.4	4.8	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Potassium	< 1200	1200	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium	< 2.4	2.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Silver [a]	< 3.0	3.0	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Sodium	< 1200	1200	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium	< 1.2	1.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium	17.2	6.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc	80.4	6.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA50977
(2) Instrument QC Batch: MA50984
(3) Instrument QC Batch: MA50994
(4) Prep QC Batch: MP28052
(5) Prep QC Batch: MP28067

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S6B (3-5)		
Lab Sample ID:	JD29690-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	80.9
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.46	0.29	mg/kg	1	08/11/21 22:51	EB	SW846 9012B/LACHAT
Solids, Percent	80.9		%	1	08/11/21 16:13	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S7B (3-5)		
Lab Sample ID:	JD29690-14	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	83.1
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C168452.D	1	08/12/21 21:43	PS	08/11/21 09:00	n/a	V3C7456
Run #2							

	Initial Weight
Run #1	4.8 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	15.6	13	5.2	ug/kg	
71-43-2	Benzene	0.64	0.63	0.57	ug/kg	
74-97-5	Bromochloromethane	ND	6.3	0.70	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.54	ug/kg	
75-25-2	Bromoform	ND	6.3	1.7	ug/kg	
74-83-9	Bromomethane [a]	ND	6.3	0.96	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.0	ug/kg	
75-15-0	Carbon disulfide	1.2	2.5	0.67	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.5	0.77	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.58	ug/kg	
75-00-3	Chloroethane	ND	6.3	0.74	ug/kg	
67-66-3	Chloroform	ND	2.5	0.65	ug/kg	
74-87-3	Chloromethane	ND	6.3	2.5	ug/kg	
110-82-7	Cyclohexane	ND	2.5	0.82	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.87	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.70	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.53	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.3	0.68	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.3	0.62	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.3	0.62	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.3	0.91	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.3	0.62	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.59	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.3	0.82	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	0.77	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.59	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.60	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.57	ug/kg	
100-41-4	Ethylbenzene	3.5	1.3	0.57	ug/kg	
76-13-1	Freon 113	ND	6.3	3.3	ug/kg	
591-78-6	2-Hexanone	ND	6.3	2.7	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S7B (3-5)		
Lab Sample ID:	JD29690-14	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	83.1
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.5	1.8	ug/kg	
79-20-9	Methyl Acetate	ND	6.3	1.7	ug/kg	
108-87-2	Methylcyclohexane	ND	2.5	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.59	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.3	2.8	ug/kg	
75-09-2	Methylene chloride	ND	6.3	3.3	ug/kg	
100-42-5	Styrene	0.90	2.5	0.50	ug/kg	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.75	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.73	ug/kg	
108-88-3	Toluene	2.4	1.3	0.66	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.3	3.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.3	3.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.61	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.69	ug/kg	
79-01-6	Trichloroethene	ND	1.3	0.96	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.3	0.86	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.60	ug/kg	
	m,p-Xylene	2.5	1.3	1.1	ug/kg	
95-47-6	o-Xylene	2.2	1.3	0.57	ug/kg	
1330-20-7	Xylene (total)	4.7	1.3	0.57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		72-130%
17060-07-0	1,2-Dichloroethane-D4	96%		75-131%
2037-26-5	Toluene-D8	100%		81-121%
460-00-4	4-Bromofluorobenzene	111%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	8.62	7.5	ug/kg	J
95-63-6	Benzene, 1,2,4-trimethyl-	8.99	6.5	ug/kg	JN
470-67-7	7-Oxabicyclo[2.2.1]heptane, 1-methyl-4-	9.10	8	ug/kg	JN
	Indane	9.49	45	ug/kg	J
	1H-Indene-dihydro-methyl- isomer	9.94	7.8	ug/kg	J
	C4 alkyl benzene	10.16	7.1	ug/kg	J
	Benzofuran, methyl- isomer	10.24	8.1	ug/kg	J
	1H-Indene-dihydro-methyl- isomer	10.41	9.6	ug/kg	J
	1H-Indene-dihydro-methyl- isomer	10.54	21	ug/kg	J
91-20-3	Naphthalene	11.06	650	ug/kg	JN

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S7B (3-5)		
Lab Sample ID:	JD29690-14	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	83.1
Project:	HK2550, NY		

VOA TCL List

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
95-15-8	Benzo[b]thiophene	11.15	21	ug/kg	JN
91-57-6	Naphthalene, 2-methyl-	11.91	150	ug/kg	JN
	Naphthalene, methyl- isomer	12.06	100	ug/kg	J
	Total TIC, Volatile		1041.6	ug/kg	J

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S7B (3-5)		
Lab Sample ID:	JD29690-14	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	83.1
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Z150674.D	4	08/12/21 12:03	CS	08/11/21 16:00	OP34825	EZ7488
Run #2	Z150696.D	40	08/12/21 23:45	BL	08/11/21 16:00	OP34825	EZ7489
Run #3	Z150695.D	400	08/12/21 23:19	BL	08/11/21 16:00	OP34825	EZ7489

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2	30.2 g	1.0 ml
Run #3	30.2 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	320	79	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	800	98	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	800	140	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	800	280	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	800	600	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	800	170	ug/kg	
95-48-7	2-Methylphenol	140	320	100	ug/kg	J
	3&4-Methylphenol	399	320	130	ug/kg	
88-75-5	2-Nitrophenol	ND	800	110	ug/kg	
100-02-7	4-Nitrophenol	ND	1600	430	ug/kg	
87-86-5	Pentachlorophenol	ND	640	150	ug/kg	
108-95-2	Phenol	185	320	83	ug/kg	J
58-90-2	2,3,4,6-Tetrachlorophenol	ND	800	110	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	800	120	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	800	95	ug/kg	
83-32-9	Acenaphthene	22600 [b]	1600	550	ug/kg	
208-96-8	Acenaphthylene	680	160	81	ug/kg	
98-86-2	Acetophenone	ND	800	34	ug/kg	
120-12-7	Anthracene	65400 [b]	1600	980	ug/kg	
1912-24-9	Atrazine	ND	320	68	ug/kg	
56-55-3	Benzo(a)anthracene	101000 [b]	1600	450	ug/kg	
50-32-8	Benzo(a)pyrene	74500 [b]	1600	730	ug/kg	
205-99-2	Benzo(b)fluoranthene	88300 [b]	1600	700	ug/kg	
191-24-2	Benzo(g,h,i)perylene	14800	160	80	ug/kg	
207-08-9	Benzo(k)fluoranthene	37600 [b]	1600	740	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	320	62	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	320	39	ug/kg	
92-52-4	1,1'-Biphenyl	2440	320	22	ug/kg	
100-52-7	Benzaldehyde	ND	800	40	ug/kg	
91-58-7	2-Chloronaphthalene	ND	320	38	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S7B (3-5)		
Lab Sample ID:	JD29690-14	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	83.1
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
106-47-8	4-Chloroaniline	ND	800	57	ug/kg	
86-74-8	Carbazole	16600 [b]	3200	230	ug/kg	
105-60-2	Caprolactam	ND	320	63	ug/kg	
218-01-9	Chrysene	89100 [b]	1600	500	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	320	34	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	320	69	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	320	57	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	320	52	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	160	49	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	160	80	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	320	130	ug/kg	
123-91-1	1,4-Dioxane	ND	160	110	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	7950 [b]	1600	700	ug/kg	
132-64-9	Dibenzofuran	18200 [b]	3200	650	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	320	26	ug/kg	
117-84-0	Di-n-octyl phthalate [c]	ND	320	40	ug/kg	
84-66-2	Diethyl phthalate	ND	320	34	ug/kg	
131-11-3	Dimethyl phthalate	ND	320	28	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	320	37	ug/kg	
206-44-0	Fluoranthene	185000 [d]	16000	7100	ug/kg	
86-73-7	Fluorene	30500 [b]	1600	730	ug/kg	
118-74-1	Hexachlorobenzene	ND	320	40	ug/kg	
87-68-3	Hexachlorobutadiene	ND	160	64	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	1600	63	ug/kg	
67-72-1	Hexachloroethane	ND	800	79	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	38600 [b]	1600	750	ug/kg	
78-59-1	Isophorone	ND	320	34	ug/kg	
91-57-6	2-Methylnaphthalene	8360	160	36	ug/kg	
88-74-4	2-Nitroaniline	ND	800	38	ug/kg	
99-09-2	3-Nitroaniline	ND	800	40	ug/kg	
100-01-6	4-Nitroaniline	ND	800	41	ug/kg	
91-20-3	Naphthalene	13200	160	45	ug/kg	
98-95-3	Nitrobenzene	ND	320	62	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	320	46	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	800	58	ug/kg	
85-01-8	Phenanthrene	202000 [d]	16000	5400	ug/kg	
129-00-0	Pyrene	178000 [d]	16000	5100	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	800	40	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S7B (3-5)		
Lab Sample ID:	JD29690-14	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	83.1
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
367-12-4	2-Fluorophenol	40%	39%	0% [e]	7-101%
4165-62-2	Phenol-d5	41%	46%	0% [e]	12-101%
118-79-6	2,4,6-Tribromophenol	20%	0% [e]	0% [e]	10-127%
4165-60-0	Nitrobenzene-d5	43%	47%	0% [e]	15-114%
321-60-8	2-Fluorobiphenyl	42%	43%	0% [e]	22-104%
1718-51-0	Terphenyl-d14	25%	48%	0% [e]	23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
90-12-0	Naphthalene, 1-methyl-	6.04	2000	ug/kg	JN
	Naphthalene dimethyl	6.45	4000	ug/kg	J
	Naphthalene dimethyl	6.51	4700	ug/kg	J
	Naphthalene dimethyl	6.53	2700	ug/kg	J
	Naphthalene dimethyl	6.60	2700	ug/kg	J
	Naphthalene trimethyl	7.18	2100	ug/kg	J
	unknown	7.38	3300	ug/kg	J
	unknown	7.40	2700	ug/kg	J
	Dibenzofuran, -methyl-	7.48	5100	ug/kg	J
	Phenanthrene methyl	9.06	700	ug/kg	J
203-64-5	4H-Cyclopenta[def]phenanthrene	9.16	1000	ug/kg	JN
	Pyrene methyl	10.84	1600	ug/kg	J
	Pyrene methyl	10.95	1100	ug/kg	J
	Pyrene methyl	10.99	750	ug/kg	J
	unknown	13.29	1400	ug/kg	J
	unknown	13.55	1600	ug/kg	J
	-Binaphthalene	14.06	2800	ug/kg	J
	unknown PAH substance	14.14	12000	ug/kg	J
	unknown	14.50	2700	ug/kg	J
	unknown	14.54	2200	ug/kg	J
	unknown	14.62	2100	ug/kg	J
	unknown	14.84	1600	ug/kg	J
	unknown	15.34	1200	ug/kg	J
	unknown	15.47	2000	ug/kg	J
	unknown	15.76	1700	ug/kg	J
	unknown	15.79	1800	ug/kg	J
	unknown	16.10	1900	ug/kg	J
	Total TIC, Semi-Volatile		69450	ug/kg	J

(a) Dilution required due to viscosity of the extract matrix.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S7B (3-5)		
Lab Sample ID:	JD29690-14	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	83.1
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q

(c) Associated CCV outside of control limits high, sample was ND.
(d) Result is from Run# 3
(e) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S7B (3-5)		
Lab Sample ID:	JD29690-14	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	83.1
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G169035.D	1	08/18/21 01:38	CP	08/11/21 11:50	OP34956	G1G5783
Run #2 [a]	1G169040.D	10	08/18/21 03:36	CP	08/17/21 12:00	OP34956	G1G5783

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2	16.0 g	10.0 ml

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.75	0.62	ug/kg	
319-84-6	alpha-BHC	ND	0.75	0.61	ug/kg	
319-85-7	beta-BHC	ND	0.75	0.68	ug/kg	
319-86-8	delta-BHC	ND	0.75	0.72	ug/kg	
58-89-9	gamma-BHC (Lindane) [b]	8.7	0.75	0.55	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.75	0.61	ug/kg	
5103-74-2	gamma-Chlordane [b]	68.8	0.75	0.34	ug/kg	
60-57-1	Dieldrin	ND	0.75	0.52	ug/kg	
72-54-8	4,4'-DDD	48.6	0.75	0.69	ug/kg	
72-55-9	4,4'-DDE [b]	9.6	0.75	0.66	ug/kg	
50-29-3	4,4'-DDT	ND	0.75	0.67	ug/kg	
72-20-8	Endrin	ND	0.75	0.58	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.75	0.59	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.75	0.43	ug/kg	
959-98-8	Endosulfan-I	ND	0.75	0.43	ug/kg	
33213-65-9	Endosulfan-II	ND	0.75	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.75	0.65	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.75	0.53	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.60	ug/kg	
53494-70-5	Endrin ketone	ND	0.75	0.54	ug/kg	
8001-35-2	Toxaphene	ND	19	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%	39%	27-138%
877-09-8	Tetrachloro-m-xylene	75%	38%	27-138%
2051-24-3	Decachlorobiphenyl	4063% [c]	264% [c]	10-179%
2051-24-3	Decachlorobiphenyl	10486% [c]	7125% [c]	10-179%

(a) Confirmation run.
(b) More than 40 % RPD for detected concentrations between the two GC columns.
(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S7B (3-5)		
Lab Sample ID:	JD29690-14	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	83.1
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2470.D	1	08/12/21 11:33	TC	08/11/21 11:50	OP34821	GRK68
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	18	ug/kg	
11104-28-2	Aroclor 1221	ND	39	24	ug/kg	
11141-16-5	Aroclor 1232	ND	39	25	ug/kg	
53469-21-9	Aroclor 1242	ND	39	16	ug/kg	
12672-29-6	Aroclor 1248	ND	39	35	ug/kg	
11097-69-1	Aroclor 1254	ND	39	21	ug/kg	
11096-82-5	Aroclor 1260	ND	39	17	ug/kg	
11100-14-4	Aroclor 1268	ND	39	16	ug/kg	
37324-23-5	Aroclor 1262	ND	39	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		24-152%
877-09-8	Tetrachloro-m-xylene	122%		24-152%
2051-24-3	Decachlorobiphenyl	153%		10-172%
2051-24-3	Decachlorobiphenyl	3580% [a]		10-172%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S7B (3-5)		
Lab Sample ID:	JD29690-14	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	83.1
Project:	HK2550, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	11000	61	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Antimony	< 2.4	2.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic	12.8	2.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	188	24	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium [a]	1.3	1.2	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Cadmium	0.89	0.61	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Calcium	70100	3000	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Chromium	16.0	1.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Cobalt	< 6.1	6.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Copper	34.5	3.0	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Iron	16700	61	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Lead	344	2.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Magnesium	4760	610	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Manganese	562	1.8	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Mercury	< 0.035	0.035	mg/kg	1	08/13/21	08/13/21	LM	SW846 7471B [1]	SW846 7471B [5]
Nickel	16.3	4.9	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Potassium	< 1200	1200	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium	< 2.4	2.4	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Silver [a]	< 3.0	3.0	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Sodium	< 1200	1200	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium	< 1.2	1.2	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium	17.5	6.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc	228	6.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA50977
(2) Instrument QC Batch: MA50984
(3) Instrument QC Batch: MA50994
(4) Prep QC Batch: MP28052
(5) Prep QC Batch: MP28067

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S7B (3-5)		
Lab Sample ID:	JD29690-14	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	83.1
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	1.0	0.24	mg/kg	1	08/11/21 22:52	EB	SW846 9012B/LACHAT
Solids, Percent	83.1		%	1	08/11/21 16:13	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S8A (0-2)		
Lab Sample ID:	JD29690-15	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	89.8
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C168453.D	1	08/12/21 22:09	PS	08/11/21 09:00	n/a	V3C7456
Run #2							

	Initial Weight
Run #1	4.4 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	19.9	13	5.2	ug/kg	
71-43-2	Benzene	ND	0.63	0.58	ug/kg	
74-97-5	Bromochloromethane	ND	6.3	0.71	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	0.54	ug/kg	
75-25-2	Bromoform	ND	6.3	1.7	ug/kg	
74-83-9	Bromomethane [a]	ND	6.3	0.97	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.1	ug/kg	
75-15-0	Carbon disulfide	ND	2.5	0.68	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	0.78	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	0.58	ug/kg	
75-00-3	Chloroethane	ND	6.3	0.75	ug/kg	
67-66-3	Chloroform	ND	2.5	0.66	ug/kg	
74-87-3	Chloromethane	ND	6.3	2.5	ug/kg	
110-82-7	Cyclohexane	ND	2.5	0.83	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.88	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	0.71	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.53	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.3	0.69	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.3	0.63	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.3	0.63	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.3	0.92	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.3	0.63	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.59	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.3	0.83	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.3	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.3	0.77	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	0.60	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.60	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.58	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.57	ug/kg	
76-13-1	Freon 113	ND	6.3	3.4	ug/kg	
591-78-6	2-Hexanone	ND	6.3	2.7	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S8A (0-2)		
Lab Sample ID:	JD29690-15	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D SW846 5035	**Percent Solids:**	89.8
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.5	1.8	ug/kg	
79-20-9	Methyl Acetate	ND	6.3	1.8	ug/kg	
108-87-2	Methylcyclohexane	ND	2.5	1.1	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.59	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.3	2.9	ug/kg	
75-09-2	Methylene chloride	ND	6.3	3.3	ug/kg	
100-42-5	Styrene	ND	2.5	0.51	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.76	ug/kg	
127-18-4	Tetrachloroethene	ND	2.5	0.73	ug/kg	
108-88-3	Toluene	1.0	1.3	0.66	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.3	3.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.3	3.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.61	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.70	ug/kg	
79-01-6	Trichloroethene	ND	1.3	0.96	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.3	0.87	ug/kg	
75-01-4	Vinyl chloride	ND	2.5	0.61	ug/kg	
	m,p-Xylene	ND	1.3	1.1	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.58	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.58	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		72-130%
17060-07-0	1,2-Dichloroethane-D4	98%		75-131%
2037-26-5	Toluene-D8	100%		81-121%
460-00-4	4-Bromofluorobenzene	103%		60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
91-20-3	Naphthalene	11.05	170	ug/kg	JN
91-57-6	Naphthalene, 2-methyl-	11.91	39	ug/kg	JN
	Naphthalene, methyl- isomer	12.05	28	ug/kg	J
	Total TIC, Volatile		237	ug/kg	J

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S8A (0-2)		
Lab Sample ID:	JD29690-15	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	89.8
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z150669.D	1	08/12/21 09:52	CS	08/11/21 16:00	OP34825	EZ7488
Run #2	Z150692.D	5	08/12/21 21:59	BL	08/11/21 16:00	OP34825	EZ7489

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2	30.5 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	73	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	31	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	65	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	39	ug/kg	
95-48-7	2-Methylphenol	ND	73	23	ug/kg	
	3&4-Methylphenol	ND	73	30	ug/kg	
88-75-5	2-Nitrophenol	ND	180	24	ug/kg	
100-02-7	4-Nitrophenol	ND	370	97	ug/kg	
87-86-5	Pentachlorophenol	ND	150	34	ug/kg	
108-95-2	Phenol	ND	73	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	22	ug/kg	
83-32-9	Acenaphthene	517	37	13	ug/kg	
208-96-8	Acenaphthylene	22.2	37	19	ug/kg	J
98-86-2	Acetophenone	ND	180	7.8	ug/kg	
120-12-7	Anthracene	1400	37	22	ug/kg	
1912-24-9	Atrazine	ND	73	16	ug/kg	
56-55-3	Benzo(a)anthracene	3700 [a]	180	52	ug/kg	
50-32-8	Benzo(a)pyrene	3440	37	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	3300 [a]	180	81	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1370	37	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	1480	37	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	73	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	73	8.9	ug/kg	
92-52-4	1,1'-Biphenyl	29.2	73	5.0	ug/kg	J
100-52-7	Benzaldehyde	31.0	180	9.1	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	73	8.7	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	565	73	5.3	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S8A (0-2)		
Lab Sample ID:	JD29690-15	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	89.8
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	73	14	ug/kg	
218-01-9	Chrysene	3550	37	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	73	7.8	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	73	16	ug/kg	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	73	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	73	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	37	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	37	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	73	30	ug/kg	
123-91-1	1,4-Dioxane	ND	37	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	480	37	16	ug/kg	
132-64-9	Dibenzofuran	257	73	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	73	6.0	ug/kg	
117-84-0	Di-n-octyl phthalate [b]	ND	73	9.1	ug/kg	
84-66-2	Diethyl phthalate	ND	73	7.8	ug/kg	
131-11-3	Dimethyl phthalate	ND	73	6.5	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	47.2	73	8.5	ug/kg	J
206-44-0	Fluoranthene	6900 [a]	180	81	ug/kg	
86-73-7	Fluorene	469	37	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	73	9.2	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	15	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1840	37	17	ug/kg	
78-59-1	Isophorone	ND	73	7.8	ug/kg	
91-57-6	2-Methylnaphthalene	99.5	37	8.3	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.6	ug/kg	
99-09-2	3-Nitroaniline	ND	180	9.1	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.5	ug/kg	
91-20-3	Naphthalene	173	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	73	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	73	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	4820 [a]	180	61	ug/kg	
129-00-0	Pyrene	6490 [a]	180	58	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%	53%	7-101%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S8A (0-2)		
Lab Sample ID:	JD29690-15	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3546	**Percent Solids:**	89.8
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	46%	53%	12-101%
118-79-6	2,4,6-Tribromophenol	37%	31%	10-127%
4165-60-0	Nitrobenzene-d5	55%	55%	15-114%
321-60-8	2-Fluorobiphenyl	60%	48%	22-104%
1718-51-0	Terphenyl-d14	52%	54%	23-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.65	490	ug/kg	J
486-25-9	9H-Fluoren-9-one	8.12	280	ug/kg	JN
	Anthracene methyl	9.00	640	ug/kg	J
	Phenanthrene methyl	9.03	950	ug/kg	J
	Phenanthrene methyl	9.10	730	ug/kg	J
203-64-5	4H-Cyclopenta[def]phenanthrene	9.14	2300	ug/kg	JN
	-Phenylnaphthalene	9.42	930	ug/kg	J
	Phenanthrene dimethyl	9.77	480	ug/kg	J
	unknown	9.81	350	ug/kg	J
	unknown	9.86	420	ug/kg	J
	unknown	9.89	350	ug/kg	J
	unknown	10.18	960	ug/kg	J
	Pyrene methyl	10.80	400	ug/kg	J
	unknown	13.25	310	ug/kg	J
	unknown	13.49	260	ug/kg	J
	unknown PAH substance	13.85	890	ug/kg	J
	unknown	14.00	520	ug/kg	J
	unknown PAH substance	14.08	2200	ug/kg	J
	unknown	14.31	280	ug/kg	J
	unknown	14.46	650	ug/kg	J
	unknown	14.57	380	ug/kg	J
	unknown	14.79	320	ug/kg	J
	unknown	15.31	410	ug/kg	J
	unknown	15.43	690	ug/kg	J
	-Dibenzophenanthrene	15.71	320	ug/kg	J
	unknown	16.06	340	ug/kg	J
	-Sitosterol	16.10	430	ug/kg	J
	Total TIC, Semi-Volatile		16790	ug/kg	J

(a) Result is from Run# 2
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S8A (0-2)		
Lab Sample ID:	JD29690-15	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	89.8
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	6G78947.D	5	08/17/21 12:30	TC	08/11/21 11:50	OP34822	G6G2769
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	3.5	2.9	ug/kg	
319-84-6	alpha-BHC	ND	3.5	2.9	ug/kg	
319-85-7	beta-BHC	ND	3.5	3.2	ug/kg	
319-86-8	delta-BHC	ND	3.5	3.4	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	3.5	2.6	ug/kg	
5103-71-9	alpha-Chlordane	ND	3.5	2.8	ug/kg	
5103-74-2	gamma-Chlordane	ND	3.5	1.6	ug/kg	
60-57-1	Dieldrin	ND	3.5	2.4	ug/kg	
72-54-8	4,4'-DDD [b]	ND	3.5	3.2	ug/kg	
72-55-9	4,4'-DDE	ND	3.5	3.1	ug/kg	
50-29-3	4,4'-DDT	ND	3.5	3.1	ug/kg	
72-20-8	Endrin	ND	3.5	2.7	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.5	2.7	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.5	2.0	ug/kg	
959-98-8	Endosulfan-I	ND	3.5	2.0	ug/kg	
33213-65-9	Endosulfan-II	ND	3.5	2.2	ug/kg	
76-44-8	Heptachlor	ND	3.5	3.0	ug/kg	
1024-57-3	Heptachlor epoxide	ND	3.5	2.5	ug/kg	
72-43-5	Methoxychlor [b]	ND	7.0	2.8	ug/kg	
53494-70-5	Endrin ketone	ND	3.5	2.5	ug/kg	
8001-35-2	Toxaphene	ND	88	82	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		27-138%
877-09-8	Tetrachloro-m-xylene	89%		27-138%
2051-24-3	Decachlorobiphenyl	222% [c]		10-179%
2051-24-3	Decachlorobiphenyl	497% [c]		10-179%

(a) Dilution required due to matrix interference.
(b) This compound outside control limits biased high in the associated BS.
(c) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S8A (0-2)		
Lab Sample ID:	JD29690-15	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3546	**Percent Solids:**	89.8
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	RK2471.D	1	08/12/21 11:49	TC	08/11/21 11:50	OP34821	GRK68
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	16	ug/kg	
11104-28-2	Aroclor 1221	ND	35	22	ug/kg	
11141-16-5	Aroclor 1232	ND	35	22	ug/kg	
53469-21-9	Aroclor 1242	ND	35	14	ug/kg	
12672-29-6	Aroclor 1248	ND	35	31	ug/kg	
11097-69-1	Aroclor 1254	ND	35	19	ug/kg	
11096-82-5	Aroclor 1260	ND	35	15	ug/kg	
11100-14-4	Aroclor 1268	ND	35	15	ug/kg	
37324-23-5	Aroclor 1262	ND	35	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		24-152%
877-09-8	Tetrachloro-m-xylene	113%		24-152%
2051-24-3	Decachlorobiphenyl	68%		10-172%
2051-24-3	Decachlorobiphenyl	848% [a]		10-172%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S8A (0-2)		
Lab Sample ID:	JD29690-15	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	89.8
Project:	HK2550, NY		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10100	57	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Antimony	< 2.3	2.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic	6.3	2.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	79.3	23	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium [a]	< 1.1	1.1	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Cadmium	< 0.57	0.57	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Calcium	54700	2900	mg/kg	5	08/13/21	08/17/21	ND	SW846 6010D [3]	SW846 3050B [4]
Chromium	13.8	1.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Cobalt	6.7	5.7	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Copper	23.8	2.9	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Iron	15600	57	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Lead	67.8	2.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Magnesium	14500	570	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Manganese	558	1.7	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Mercury	< 0.030	0.030	mg/kg	1	08/13/21	08/13/21	LM	SW846 7471B [1]	SW846 7471B [5]
Nickel	17.3	4.6	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Potassium	1710	1100	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium	< 2.3	2.3	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Silver	0.77	0.57	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Sodium	< 1100	1100	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium	18.5	5.7	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc	81.0	5.7	mg/kg	1	08/13/21	08/15/21	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA50977
(2) Instrument QC Batch: MA50984
(3) Instrument QC Batch: MA50994
(4) Prep QC Batch: MP28052
(5) Prep QC Batch: MP28067

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	S8A (0-2)		
Lab Sample ID:	JD29690-15	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	89.8
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.29	0.24	mg/kg	1	08/11/21 22:54	EB	SW846 9012B/LACHAT
Solids, Percent	89.8		%	1	08/11/21 16:13	BG	SM2540 G 18TH ED MOD

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TWP1		
Lab Sample ID:	JD29690-17	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D111832.D	1	08/16/21 19:52	MD	n/a	n/a	V4D4981
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide [a]	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane [a]	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP1		
Lab Sample ID:	JD29690-17	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		85-118%
17060-07-0	1,2-Dichloroethane-D4	113%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP1		
Lab Sample ID:	JD29690-17	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F201152.D	1	08/13/21 06:26	CS	08/11/21 16:35	OP34831	EF8802
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	4.9	0.80	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	4.9	1.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	4.9	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.87	ug/l	
	3&4-Methylphenol	ND	2.0	0.86	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.94	ug/l	
100-02-7	4-Nitrophenol	ND	9.8	1.1	ug/l	
87-86-5	Pentachlorophenol	ND	3.9	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.38	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.91	ug/l	
83-32-9	Acenaphthene	ND	0.98	0.19	ug/l	
208-96-8	Acenaphthylene	ND	0.98	0.13	ug/l	
98-86-2	Acetophenone	ND	2.0	0.20	ug/l	
120-12-7	Anthracene	ND	0.98	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.44	ug/l	
100-52-7	Benzaldehyde	ND	4.9	0.28	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.98	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.98	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.98	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.98	0.33	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.98	0.20	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.45	ug/l	
92-52-4	1,1'-Biphenyl	ND	0.98	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.23	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.33	ug/l	
86-74-8	Carbazole	ND	0.98	0.22	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP1		
Lab Sample ID:	JD29690-17	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	2.0	0.64	ug/l	
218-01-9	Chrysene	ND	0.98	0.17	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.27	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.24	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.36	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.98	0.54	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.98	0.47	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	0.98	0.64	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.98	0.32	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.49	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	5.9	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.21	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	2.0	2.0	1.6	ug/l	
206-44-0	Fluoranthene	ND	0.98	0.17	ug/l	
86-73-7	Fluorene	ND	0.98	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	0.98	0.32	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.98	0.48	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.8	2.7	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.38	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.98	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.98	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.27	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.38	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.43	ug/l	
91-20-3	Naphthalene	ND	0.98	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.63	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.47	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.22	ug/l	
85-01-8	Phenanthrene	ND	0.98	0.17	ug/l	
129-00-0	Pyrene	ND	0.98	0.21	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		10-83%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP1		
Lab Sample ID:	JD29690-17	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	25%		10-82%
118-79-6	2,4,6-Tribromophenol	89%		37-139%
4165-60-0	Nitrobenzene-d5	80%		35-127%
321-60-8	2-Fluorobiphenyl	73%		35-121%
1718-51-0	Terphenyl-d14	47%		28-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
143-07-7	Dodecanoic acid	7.32	560	ug/l	JN
	unknown	8.22	4.2	ug/l	J
	unknown acid	8.47	5.4	ug/l	J
10544-50-0	Cyclic octaatomic sulfur	11.12	54	ug/l	JN
57-11-4	Octadecanoic acid	11.61	26	ug/l	JN
	unknown	15.38	9.6	ug/l	J
1843-05-6	Octabenzone	16.32	16	ug/l	JN
	unknown	16.37	4.2	ug/l	J
	unknown	17.29	17	ug/l	J
	unknown	19.05	24	ug/l	J
	Total TIC, Semi-Volatile		720.4	ug/l	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP1		
Lab Sample ID:	JD29690-17	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q74260.D	1.2	08/17/21 14:49	AFL	08/16/21 10:00	F:OP86850	F:S2Q1060
Run #2 [b]	2Q74277.D	12	08/18/21 10:02	AFL	08/16/21 10:00	F:OP86850	F:S2Q1061
Run #3 [c]	2Q74278.D	120	08/18/21 10:23	AFL	08/16/21 10:00	F:OP86850	F:S2Q1061

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2	280 ml	1.0 ml
Run #3	280 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	378	4.3	2.1	ng/l	
2706-90-3	Perfluoropentanoic acid	1550 [d]	21	11	ng/l	
307-24-4	Perfluorohexanoic acid	1020 [d]	21	11	ng/l	
375-85-9	Perfluoroheptanoic acid	660 [d]	21	11	ng/l	
335-67-1	Perfluorooctanoic acid	486 [d]	21	11	ng/l	
375-95-1	Perfluorononanoic acid	6.0	2.1	1.1	ng/l	
335-76-2	Perfluorodecanoic acid	ND	2.1	1.1	ng/l	
2058-94-8	Perfluoroundecanoic acid	ND [d]	21	11	ng/l	
307-55-1	Perfluorododecanoic acid	ND [d]	21	11	ng/l	
72629-94-8	Perfluorotridecanoic acid	ND [d]	21	11	ng/l	
376-06-7	Perfluorotetradecanoic acid	ND	2.1	1.1	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	90.9	2.1	1.1	ng/l	
355-46-4	Perfluorohexanesulfonic acid	1220 [d]	21	11	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	50.9	2.1	1.1	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	411	2.1	1.1	ng/l	
335-77-3	Perfluorodecanesulfonic acid	ND [d]	21	11	ng/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	4.3	2.1	ng/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	4.3	2.1	ng/l	
2991-50-6	EtFOSAA	ND [d]	43	21	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	2250 [e]	860	210	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	4.3	8.6	2.1	ng/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP1		
Lab Sample ID:	JD29690-17	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HK2550, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Run# 3	Limits
	13C4-PFBA	104%	114%	98%	35-135%
	13C5-PFPeA	101%	117%	99%	50-150%
	13C5-PFHxA	99%	115%	99%	50-150%
	13C4-PFHpA	95%	113%	97%	50-150%
	13C8-PFOA	102%	114%	98%	50-150%
	13C9-PFNA	103%	113%	98%	50-150%
	13C6-PFDA	100%	106%	100%	50-150%
	13C7-PFUnDA	22% [f]	86%	97%	40-140%
	13C2-PFDoDA	32% [f]	84%	99%	40-140%
	13C2-PFTeDA	47%	61%	91%	30-130%
	13C3-PFBS	109%	125%	99%	50-150%
	13C3-PFHxS	99%	119%	103%	50-150%
	13C8-PFOS	101%	113%	100%	50-150%
	13C8-FOSA	74%	92%	99%	30-130%
	d3-MeFOSAA	119%	108%	107%	40-140%
	d5-EtFOSAA	4% [f]	99%	102%	40-140%
	13C2-6:2FTS	234% [f]	272% [f]	93%	50-150%
	13C2-8:2FTS	110%	103%	93%	50-150%

(a) Dilution due to sample clogging SPE cartridge, only partial volume was extracted. Analysis performed at SGS Orlando, FL.
(b) Dilution required due to matrix interference (ID recovery standard failure). Analysis performed at SGS Orlando, FL.
(c) Analysis performed at SGS Orlando, FL.
(d) Result is from Run# 2
(e) Result is from Run# 3
(f) Outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP1		
Lab Sample ID:	JD29690-17	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G168906.D	1	08/13/21 11:31	TC	08/12/21 10:25	OP34806A	G1G5775
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0050	0.0026	ug/l	
319-84-6	alpha-BHC	ND	0.0050	0.0026	ug/l	
319-85-7	beta-BHC	ND	0.0050	0.0040	ug/l	
319-86-8	delta-BHC	ND	0.0050	0.0033	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0050	0.0030	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0050	0.0025	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0050	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.0050	0.0038	ug/l	
72-54-8	4,4'-DDD	ND	0.0050	0.0029	ug/l	
72-55-9	4,4'-DDE	ND	0.0050	0.0025	ug/l	
50-29-3	4,4'-DDT	ND	0.0050	0.0034	ug/l	
72-20-8	Endrin	ND	0.0050	0.0030	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0050	0.0027	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0050	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.0050	0.0031	ug/l	
959-98-8	Endosulfan-I	ND	0.0050	0.0026	ug/l	
33213-65-9	Endosulfan-II	ND	0.0050	0.0024	ug/l	
76-44-8	Heptachlor	ND	0.0050	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0050	0.0030	ug/l	
72-43-5	Methoxychlor	ND	0.010	0.0034	ug/l	
8001-35-2	Toxaphene	ND	0.13	0.082	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		10-165%
877-09-8	Tetrachloro-m-xylene	119%		10-165%
2051-24-3	Decachlorobiphenyl	26% [a]		28-161%
2051-24-3	Decachlorobiphenyl	35%		28-161%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP1		
Lab Sample ID:	JD29690-17	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2469583.D	1	08/16/21 23:11	RK	08/12/21 10:25	OP34807A	GXX7539
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	0.098	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	0.11	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	0.063	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	0.21	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	0.076	ug/l	
11100-14-4	Aroclor 1268	ND	0.25	0.087	ug/l	
37324-23-5	Aroclor 1262	ND	0.25	0.097	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		10-155%
877-09-8	Tetrachloro-m-xylene	85%		10-155%
2051-24-3	Decachlorobiphenyl	32%		10-151%
2051-24-3	Decachlorobiphenyl	30%		10-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP1
Lab Sample ID: JD29690-17
Matrix: AQ - Ground Water
Project: HK2550, NY

Date Sampled: 08/09/21
Date Received: 08/10/21
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	27100	200	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Arsenic [a]	39.9	6.0	ug/l	2	08/12/21	08/17/21	ND	SW846 6010D [3]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Beryllium	2.4	1.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Cadmium	< 3.0	3.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Calcium	276000	10000	ug/l	2	08/12/21	08/17/21	ND	SW846 6010D [3]	SW846 3010A [4]
Chromium	101	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Cobalt	62.7	50	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Copper	52.5	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Iron	132000	100	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Lead [a]	70.1	6.0	ug/l	2	08/12/21	08/17/21	ND	SW846 6010D [3]	SW846 3010A [4]
Magnesium	38600	5000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Manganese	3290	15	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Mercury	< 1.2	1.2	ug/l	1	08/16/21	08/16/21	LM	SW846 7470A [2]	SW846 7470A [5]
Nickel	111	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Sodium	12000	10000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Vanadium	68.7	50	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Zinc	522	20	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50976
(2) Instrument QC Batch: MA50980
(3) Instrument QC Batch: MA50990
(4) Prep QC Batch: MP28032
(5) Prep QC Batch: MP28079

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TWP1		
Lab Sample ID:	JD29690-17	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
		Percent Solids:	n/a
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	08/11/21 22:18	EB	EPA 335.4/LACHAT

RL = Reporting Limit

Report of Analysis

Client Sample ID: TWP1
Lab Sample ID: JD29690-17F
Matrix: AQ - Groundwater Filtered
Project: HK2550, NY

Date Sampled: 08/09/21
Date Received: 08/10/21
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Arsenic	< 3.0	3.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Calcium	122000	5000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Iron	2970	100	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	< 3.0	3.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Magnesium	16000	5000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Manganese	386	15	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/16/21	08/16/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Potassium	< 10000	10000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Sodium	10200	10000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA50976
(2) Instrument QC Batch: MA50980
(3) Prep QC Batch: MP28032
(4) Prep QC Batch: MP28079

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TWP3		
Lab Sample ID:	JD29690-18	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D111833.D	1	08/16/21 20:20	MD	n/a	n/a	V4D4981
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	0.51	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide [a]	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane [a]	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.4	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP3		
Lab Sample ID:	JD29690-18	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.60	1.0	0.51	ug/l	J
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		85-118%
17060-07-0	1,2-Dichloroethane-D4	114%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP3		
Lab Sample ID:	JD29690-18	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F201155.D	1	08/13/21 07:48	CS	08/11/21 16:35	OP34831	EF8802
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	4.9	0.80	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	1.9	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	4.9	1.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	4.9	1.3	ug/l	
95-48-7	2-Methylphenol	ND	1.9	0.86	ug/l	
	3&4-Methylphenol	ND	1.9	0.85	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.93	ug/l	
100-02-7	4-Nitrophenol	ND	9.7	1.1	ug/l	
87-86-5	Pentachlorophenol	ND	3.9	1.3	ug/l	
108-95-2	Phenol	ND	1.9	0.38	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.90	ug/l	
83-32-9	Acenaphthene	ND	0.97	0.19	ug/l	
208-96-8	Acenaphthylene	ND	0.97	0.13	ug/l	
98-86-2	Acetophenone	ND	1.9	0.20	ug/l	
120-12-7	Anthracene	0.28	0.97	0.20	ug/l	J
1912-24-9	Atrazine	ND	1.9	0.43	ug/l	
100-52-7	Benzaldehyde	ND	4.9	0.28	ug/l	
56-55-3	Benzo(a)anthracene	0.63	0.97	0.20	ug/l	J
50-32-8	Benzo(a)pyrene	0.49	0.97	0.21	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.57	0.97	0.20	ug/l	J
191-24-2	Benzo(g,h,i)perylene	ND	0.97	0.33	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.97	0.20	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	1.9	0.39	ug/l	
85-68-7	Butyl benzyl phthalate	ND	1.9	0.44	ug/l	
92-52-4	1,1'-Biphenyl	ND	0.97	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	1.9	0.23	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.33	ug/l	
86-74-8	Carbazole	0.25	0.97	0.22	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP3		
Lab Sample ID:	JD29690-18	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	1.9	0.63	ug/l	
218-01-9	Chrysene	0.54	0.97	0.17	ug/l	J
111-91-1	bis(2-Chloroethoxy)methane	ND	1.9	0.27	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	1.9	0.24	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	1.9	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1.9	0.36	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.97	0.54	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.97	0.46	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	1.9	0.49	ug/l	
123-91-1	1,4-Dioxane	ND	0.97	0.64	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.97	0.32	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.21	ug/l	
84-74-2	Di-n-butyl phthalate	ND	1.9	0.48	ug/l	
117-84-0	Di-n-octyl phthalate	ND	1.9	0.23	ug/l	
84-66-2	Diethyl phthalate	2.1	1.9	0.25	ug/l	
131-11-3	Dimethyl phthalate	ND	1.9	0.21	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.7	1.9	1.6	ug/l	J
206-44-0	Fluoranthene	1.2	0.97	0.17	ug/l	
86-73-7	Fluorene	ND	0.97	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	0.97	0.32	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.97	0.48	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.7	2.7	ug/l	
67-72-1	Hexachloroethane	ND	1.9	0.38	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.97	0.32	ug/l	
78-59-1	Isophorone	ND	1.9	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.97	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.27	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.38	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.43	ug/l	
91-20-3	Naphthalene	ND	0.97	0.23	ug/l	
98-95-3	Nitrobenzene	ND	1.9	0.62	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	1.9	0.47	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.22	ug/l	
85-01-8	Phenanthrene	1.0	0.97	0.17	ug/l	
129-00-0	Pyrene	0.91	0.97	0.21	ug/l	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	1.9	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	31%		10-83%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP3		
Lab Sample ID:	JD29690-18	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	21%		10-82%
118-79-6	2,4,6-Tribromophenol	83%		37-139%
4165-60-0	Nitrobenzene-d5	80%		35-127%
321-60-8	2-Fluorobiphenyl	63%		35-121%
1718-51-0	Terphenyl-d14	37%		28-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown acid	5.18	30	ug/l	J
112-05-0	Nonanoic acid	5.83	4.6	ug/l	JN
143-07-7	Dodecanoic acid	7.29	310	ug/l	JN
	unknown acid	9.89	5.3	ug/l	J
10544-50-0	Cyclic octaatomic sulfur	11.12	55	ug/l	JN
77-94-1	Butyl citrate	11.44	16	ug/l	JN
57-11-4	Octadecanoic acid	11.61	13	ug/l	JN
	unknown	11.79	83	ug/l	J
	unknown	12.30	29	ug/l	J
1843-05-6	Octabenzone	16.32	4.7	ug/l	JN
	unknown	16.37	4.3	ug/l	J
	Total TIC, Semi-Volatile		554.9	ug/l	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP3		
Lab Sample ID:	JD29690-18	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q74261.D	1	08/17/21 15:05	AFL	08/16/21 10:00	F:OP86850	F:S2Q1060
Run #2 [a]	2Q74279.D	10	08/18/21 10:39	AFL	08/16/21 10:00	F:OP86850	F:S2Q1061
Run #3 [a]	2Q74280.D	200	08/18/21 10:55	AFL	08/16/21 10:00	F:OP86850	F:S2Q1061

	Initial Volume	Final Volume
Run #1	270 ml	1.0 ml
Run #2	270 ml	1.0 ml
Run #3	270 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	2600 [b]	37	19	ng/l	
2706-90-3	Perfluoropentanoic acid	9690 [c]	370	190	ng/l	
307-24-4	Perfluorohexanoic acid	8600 [c]	370	190	ng/l	
375-85-9	Perfluoroheptanoic acid	3980 [c]	370	190	ng/l	
335-67-1	Perfluorooctanoic acid	5550 [c]	370	190	ng/l	
375-95-1	Perfluorononanoic acid	640 [b]	19	9.3	ng/l	
335-76-2	Perfluorodecanoic acid	9.8	1.9	0.93	ng/l	
2058-94-8	Perfluoroundecanoic acid	12.4	1.9	0.93	ng/l	
307-55-1	Perfluorododecanoic acid	ND	1.9	0.93	ng/l	
72629-94-8	Perfluorotridecanoic acid	1.2	1.9	0.93	ng/l	J
376-06-7	Perfluorotetradecanoic acid	ND	1.9	0.93	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	2140 [c]	370	190	ng/l	
355-46-4	Perfluorohexanesulfonic acid	44400 [c]	370	190	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	3590 [b]	19	9.3	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	26900 [c]	370	190	ng/l	
335-77-3	Perfluorodecanesulfonic acid	2.7	1.9	0.93	ng/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	14.9	3.7	1.9	ng/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	3.7	1.9	ng/l	
2991-50-6	EtFOSAA	ND	3.7	1.9	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	50900 [c]	1500	370	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	91.3	7.4	1.9	ng/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP3		
Lab Sample ID:	JD29690-18	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HK2550, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Run# 3	Limits
	13C4-PFBA	79%	92%	101%	35-135%
	13C5-PFPeA	58%	93%	102%	50-150%
	13C5-PFHxA	50%	87%	101%	50-150%
	13C4-PFHpA	18% d	69%	97%	50-150%
	13C8-PFOA	40% d	82%	101%	50-150%
	13C9-PFNA	34% d	78%	99%	50-150%
	13C6-PFDA	73%	77%	102%	50-150%
	13C7-PFUnDA	54%	57%	100%	40-140%
	13C2-PFDoDA	52%	53%	99%	40-140%
	13C2-PFTeDA	54%	54%	94%	30-130%
	13C3-PFBS	77%	96%	101%	50-150%
	13C3-PFHxS	34% d	76%	102%	50-150%
	13C8-PFOS	37% d	67%	101%	50-150%
	13C8-FOSA	54%	68%	103%	30-130%
	d3-MeFOSAA	87%	79%	109%	40-140%
	d5-EtFOSAA	73%	64%	102%	40-140%
	13C2-6:2FTS	1144% d	2902% d	110%	50-150%
	13C2-8:2FTS	92%	95%	95%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Result is from Run# 2
(c) Result is from Run# 3
(d) Outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP3		
Lab Sample ID:	JD29690-18	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G168900.D	1	08/13/21 04:19	CP	08/12/21 10:25	OP34806A	G1G5774
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0049	0.0025	ug/l	
319-84-6	alpha-BHC	ND	0.0049	0.0025	ug/l	
319-85-7	beta-BHC	ND	0.0049	0.0039	ug/l	
319-86-8	delta-BHC	ND	0.0049	0.0032	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0049	0.0029	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0049	0.0024	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0049	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.0049	0.0037	ug/l	
72-54-8	4,4'-DDD	ND	0.0049	0.0028	ug/l	
72-55-9	4,4'-DDE	ND	0.0049	0.0025	ug/l	
50-29-3	4,4'-DDT	ND	0.0049	0.0033	ug/l	
72-20-8	Endrin	ND	0.0049	0.0029	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0049	0.0026	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0049	0.0033	ug/l	
53494-70-5	Endrin ketone	ND	0.0049	0.0030	ug/l	
959-98-8	Endosulfan-I	ND	0.0049	0.0026	ug/l	
33213-65-9	Endosulfan-II	ND	0.0049	0.0024	ug/l	
76-44-8	Heptachlor	ND	0.0049	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0049	0.0029	ug/l	
72-43-5	Methoxychlor	ND	0.0097	0.0033	ug/l	
8001-35-2	Toxaphene	ND	0.12	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	65% [a]		10-165%
877-09-8	Tetrachloro-m-xylene	115% [a]		10-165%
2051-24-3	Decachlorobiphenyl	21% [b]		28-161%
2051-24-3	Decachlorobiphenyl	24% [b]		28-161%

(a) Outside of in house control limits.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP3		
Lab Sample ID:	JD29690-18	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2469452.D	1	08/13/21 02:16	RK	08/12/21 10:25	OP34807A	GXX7534
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.24	0.095	ug/l	
11104-28-2	Aroclor 1221	ND	0.24	0.20	ug/l	
11141-16-5	Aroclor 1232	ND	0.24	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.24	0.11	ug/l	
12672-29-6	Aroclor 1248	ND	0.24	0.061	ug/l	
11097-69-1	Aroclor 1254	ND	0.24	0.20	ug/l	
11096-82-5	Aroclor 1260	ND	0.24	0.074	ug/l	
11100-14-4	Aroclor 1268	ND	0.24	0.084	ug/l	
37324-23-5	Aroclor 1262	ND	0.24	0.094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		10-155%
877-09-8	Tetrachloro-m-xylene	91%		10-155%
2051-24-3	Decachlorobiphenyl	21%		10-151%
2051-24-3	Decachlorobiphenyl	22%		10-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP3
Lab Sample ID: JD29690-18
Matrix: AQ - Ground Water
Project: HK2550, NY

Date Sampled: 08/09/21
Date Received: 08/10/21
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	13400	200	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Arsenic	50.4	3.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Barium	326	200	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Calcium	191000	5000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	26.8	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Copper	27.6	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Iron	45100	100	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	42.1	3.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Magnesium	27800	5000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Manganese	1560	15	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury	< 0.60	0.60	ug/l	1	08/16/21	08/16/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel	40.6	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Potassium	< 10000	10000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Sodium	< 10000	10000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Thallium	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]
Zinc	198	20	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA50976
(2) Instrument QC Batch: MA50980
(3) Prep QC Batch: MP28032
(4) Prep QC Batch: MP28079

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TWP3		
Lab Sample ID:	JD29690-18	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
		Percent Solids:	n/a
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	08/11/21 22:20	EB	EPA 335.4/LACHAT

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	TWP3		
Lab Sample ID:	JD29690-18F	**Date Sampled:**	08/09/21
Matrix:	AQ - Groundwater Filtered	**Date Received:**	08/10/21
		Percent Solids:	n/a
Project:	HK2550, NY		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Arsenic	8.4	3.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Cadmium	< 3.0	3.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Calcium	119000	5000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Copper	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Iron	268	100	ug/l	1	08/12/21	08/17/21	ND	SW846 6010D [3]	SW846 3010A [4]
Lead	< 3.0	3.0	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Magnesium	10600	5000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Manganese	890	15	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	08/16/21	08/16/21	LM	SW846 7470A [2]	SW846 7470A [5]
Nickel	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Sodium	< 10000	10000	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]
Zinc	22.7	20	ug/l	1	08/12/21	08/13/21	ND	SW846 6010D [1]	SW846 3010A [4]

(1) Instrument QC Batch: MA50976
(2) Instrument QC Batch: MA50980
(3) Instrument QC Batch: MA50990
(4) Prep QC Batch: MP28032
(5) Prep QC Batch: MP28079

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TWP5		
Lab Sample ID:	JD29690-19	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D111834.D	1	08/16/21 20:49	MD	n/a	n/a	V4D4981
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide [a]	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane [a]	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [a]	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene [a]	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP5		
Lab Sample ID:	JD29690-19	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HK2550, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		85-118%
17060-07-0	1,2-Dichloroethane-D4	115%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP5		
Lab Sample ID:	JD29690-19	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F201157.D	1	08/13/21 08:43	CS	08/11/21 16:35	OP34831	EF8802
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	4.9	0.80	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.9	0.87	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	4.9	1.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	4.9	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.87	ug/l	
	3&4-Methylphenol	ND	2.0	0.86	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	0.94	ug/l	
100-02-7	4-Nitrophenol	ND	9.8	1.1	ug/l	
87-86-5	Pentachlorophenol	ND	3.9	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.38	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.9	1.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	0.91	ug/l	
83-32-9	Acenaphthene	ND	0.98	0.19	ug/l	
208-96-8	Acenaphthylene	ND	0.98	0.13	ug/l	
98-86-2	Acetophenone	ND	2.0	0.20	ug/l	
120-12-7	Anthracene	ND	0.98	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.44	ug/l	
100-52-7	Benzaldehyde	ND	4.9	0.28	ug/l	
56-55-3	Benzo(a)anthracene	0.25	0.98	0.20	ug/l	J
50-32-8	Benzo(a)pyrene	ND	0.98	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.98	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.98	0.33	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.98	0.20	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.45	ug/l	
92-52-4	1,1'-Biphenyl	ND	0.98	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.23	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	0.33	ug/l	
86-74-8	Carbazole	ND	0.98	0.22	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP5		
Lab Sample ID:	JD29690-19	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam [a]	ND	2.0	0.64	ug/l	
218-01-9	Chrysene	ND	0.98	0.17	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.27	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.24	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.36	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.98	0.54	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.98	0.47	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	0.98	0.64	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.98	0.32	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.49	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	0.43	2.0	0.26	ug/l	J
131-11-3	Dimethyl phthalate	ND	2.0	0.21	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.6	ug/l	
206-44-0	Fluoranthene	0.22	0.98	0.17	ug/l	J
86-73-7	Fluorene	ND	0.98	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	0.98	0.32	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.98	0.48	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	9.8	2.7	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.38	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.98	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.98	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	0.27	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	0.38	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	0.43	ug/l	
91-20-3	Naphthalene	ND	0.98	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.63	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.47	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.9	0.22	ug/l	
85-01-8	Phenanthrene	ND	0.98	0.17	ug/l	
129-00-0	Pyrene	ND	0.98	0.21	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		10-83%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP5		
Lab Sample ID:	JD29690-19	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	19%		10-82%
118-79-6	2,4,6-Tribromophenol	98%		37-139%
4165-60-0	Nitrobenzene-d5	89%		35-127%
321-60-8	2-Fluorobiphenyl	82%		35-121%
1718-51-0	Terphenyl-d14	73%		28-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.01	11	ug/l	J
	system artifact	3.27	9.2	ug/l	J
143-07-7	Dodecanoic acid	7.29	250	ug/l	JN
	unknown acid	11.42	5.5	ug/l	J
57-11-4	Octadecanoic acid	11.63	95	ug/l	JN
77-94-1	Butyl citrate	11.79	7.6	ug/l	JN
	unknown	15.38	5.6	ug/l	J
1843-05-6	Octabenzone	16.32	24	ug/l	JN
	unknown	17.29	12	ug/l	J
	unknown	19.05	20	ug/l	J
	Total TIC, Semi-Volatile		419.7	ug/l	J

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP5		
Lab Sample ID:	JD29690-19	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q74262.D	1	08/17/21 15:21	AFL	08/16/21 10:00	F:OP86850	F:S2Q1060
Run #2 [a]	2Q74281.D	10	08/18/21 11:11	AFL	08/16/21 10:00	F:OP86850	F:S2Q1061
Run #3 [a]	2Q74282.D	100	08/18/21 11:27	AFL	08/16/21 10:00	F:OP86850	F:S2Q1061

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2	280 ml	1.0 ml
Run #3	280 ml	1.0 ml

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	428 [b]	36	18	ng/l	
2706-90-3	Perfluoropentanoic acid	1660 [b]	18	8.9	ng/l	
307-24-4	Perfluorohexanoic acid	1270 [b]	18	8.9	ng/l	
375-85-9	Perfluoroheptanoic acid	846 [b]	18	8.9	ng/l	
335-67-1	Perfluorooctanoic acid	478 [b]	18	8.9	ng/l	
375-95-1	Perfluorononanoic acid	2.5	1.8	0.89	ng/l	
335-76-2	Perfluorodecanoic acid	0.97	1.8	0.89	ng/l	J
2058-94-8	Perfluoroundecanoic acid	ND	1.8	0.89	ng/l	
307-55-1	Perfluorododecanoic acid	ND	1.8	0.89	ng/l	
72629-94-8	Perfluorotridecanoic acid	ND	1.8	0.89	ng/l	
376-06-7	Perfluorotetradecanoic acid	ND	1.8	0.89	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	167	1.8	0.89	ng/l	
355-46-4	Perfluorohexanesulfonic acid	2590 [b]	18	8.9	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	83.4	1.8	0.89	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	188	1.8	0.89	ng/l	
335-77-3	Perfluorodecanesulfonic acid	ND	1.8	0.89	ng/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	3.6	1.8	ng/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	3.6	1.8	ng/l	
2991-50-6	EtFOSAA	ND	3.6	1.8	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	2630 [c]	710	180	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	7.1	1.8	ng/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP5		
Lab Sample ID:	JD29690-19	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HK2550, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Run# 3	Limits
	13C4-PFBA	84%	93%	97%	35-135%
	13C5-PFPeA	77%	100%	98%	50-150%
	13C5-PFHxA	74%	96%	97%	50-150%
	13C4-PFHpA	71%	93%	94%	50-150%
	13C8-PFOA	85%	95%	98%	50-150%
	13C9-PFNA	86%	94%	95%	50-150%
	13C6-PFDA	85%	88%	98%	50-150%
	13C7-PFUnDA	67%	75%	95%	40-140%
	13C2-PFDoDA	61%	64%	95%	40-140%
	13C2-PFTeDA	58%	59%	90%	30-130%
	13C3-PFBS	86%	96%	95%	50-150%
	13C3-PFHxS	77%	97%	99%	50-150%
	13C8-PFOS	79%	91%	101%	50-150%
	13C8-FOSA	62%	79%	97%	30-130%
	d3-MeFOSAA	107%	91%	104%	40-140%
	d5-EtFOSAA	97%	82%	98%	40-140%
	13C2-6:2FTS	227% [d]	277% [d]	91%	50-150%
	13C2-8:2FTS	99%	86%	90%	50-150%

(a) Analysis performed at SGS Orlando, FL.
(b) Result is from Run# 2
(c) Result is from Run# 3
(d) Outside control limits.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP5		
Lab Sample ID:	JD29690-19	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G168901.D	1	08/13/21 04:37	CP	08/12/21 10:25	OP34806A	G1G5774
Run #2							

	Initial Volume	Final Volume
Run #1	975 ml	5.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.0051	0.0027	ug/l	
319-84-6	alpha-BHC	ND	0.0051	0.0027	ug/l	
319-85-7	beta-BHC	ND	0.0051	0.0041	ug/l	
319-86-8	delta-BHC	ND	0.0051	0.0034	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0051	0.0031	ug/l	
5103-71-9	alpha-Chlordane	ND	0.0051	0.0025	ug/l	
5103-74-2	gamma-Chlordane	ND	0.0051	0.0022	ug/l	
60-57-1	Dieldrin	ND	0.0051	0.0039	ug/l	
72-54-8	4,4'-DDD	ND	0.0051	0.0029	ug/l	
72-55-9	4,4'-DDE	ND	0.0051	0.0026	ug/l	
50-29-3	4,4'-DDT	ND	0.0051	0.0035	ug/l	
72-20-8	Endrin	ND	0.0051	0.0031	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0051	0.0028	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0051	0.0034	ug/l	
53494-70-5	Endrin ketone	ND	0.0051	0.0032	ug/l	
959-98-8	Endosulfan-I	ND	0.0051	0.0027	ug/l	
33213-65-9	Endosulfan-II	ND	0.0051	0.0025	ug/l	
76-44-8	Heptachlor	ND	0.0051	0.0023	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0051	0.0031	ug/l	
72-43-5	Methoxychlor	ND	0.010	0.0034	ug/l	
8001-35-2	Toxaphene	ND	0.13	0.084	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		10-165%
877-09-8	Tetrachloro-m-xylene	96%		10-165%
2051-24-3	Decachlorobiphenyl	32%		28-161%
2051-24-3	Decachlorobiphenyl	38%		28-161%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TWP5		
Lab Sample ID:	JD29690-19	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2469453.D	1	08/13/21 02:34	RK	08/12/21 10:25	OP34807A	GXX7534
Run #2							

	Initial Volume	Final Volume
Run #1	975 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	0.10	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	0.21	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	0.13	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	0.12	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	0.065	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	0.21	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	0.078	ug/l	
11100-14-4	Aroclor 1268	ND	0.26	0.089	ug/l	
37324-23-5	Aroclor 1262	ND	0.26	0.099	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		10-155%
877-09-8	Tetrachloro-m-xylene	80%		10-155%
2051-24-3	Decachlorobiphenyl	32%		10-151%
2051-24-3	Decachlorobiphenyl	36%		10-151%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TWP5
Lab Sample ID: JD29690-19
Matrix: AQ - Ground Water
Project: HK2550, NY

Date Sampled: 08/09/21
Date Received: 08/10/21
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	135000	2000	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Antimony	< 60	60	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Arsenic	167	30	ug/l	1	08/16/21	08/19/21	ND	SW846 6010D [3]	SW846 3010A [4]
Barium	< 2000	2000	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Beryllium	< 10	10	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Cadmium	< 30	30	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Calcium	1080000	50000	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Chromium	358	100	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Cobalt	< 500	500	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Copper	344	100	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Iron	387000	1000	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Lead	601	30	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Magnesium	189000	50000	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Manganese	8630	150	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Mercury	< 1.2	1.2	ug/l	1	08/16/21	08/16/21	LM	SW846 7470A [1]	SW846 7470A [5]
Nickel	365	100	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Potassium	< 100000	100000	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Selenium	103	100	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Silver	< 100	100	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Sodium	116000	100000	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Thallium	< 100	100	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Vanadium	< 500	500	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Zinc	2610	200	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]

(1) Instrument QC Batch: MA50980
(2) Instrument QC Batch: MA50989
(3) Instrument QC Batch: MA51003
(4) Prep QC Batch: MP28059
(5) Prep QC Batch: MP28079

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TWP5		
Lab Sample ID:	JD29690-19	**Date Sampled:**	08/09/21
Matrix:	AQ - Ground Water	**Date Received:**	08/10/21
		Percent Solids:	n/a
Project:	HK2550, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	08/11/21 22:21	EB	EPA 335.4/LACHAT

RL = Reporting Limit

Report of Analysis

Client Sample ID: TWP5
Lab Sample ID: JD29690-19F
Matrix: AQ - Groundwater Filtered
Project: HK2550, NY

Date Sampled: 08/09/21
Date Received: 08/10/21
Percent Solids: n/a

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Antimony	< 6.0	6.0	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Arsenic	3.2	3.0	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Barium	< 200	200	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Beryllium	< 1.0	1.0	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Cadmium	< 3.0	3.0	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Calcium	169000	5000	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Chromium	< 10	10	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Cobalt	< 50	50	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Copper	< 10	10	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Iron	699	100	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Lead	< 3.0	3.0	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Magnesium	20600	5000	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Manganese	1230	15	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Mercury	< 0.20	0.20	ug/l	1	08/16/21	08/16/21	LM	SW846 7470A [1]	SW846 7470A [5]
Nickel	< 10	10	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Potassium	< 10000	10000	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Selenium	< 10	10	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Silver	< 10	10	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Sodium	112000	10000	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Thallium	< 10	10	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Vanadium	< 50	50	ug/l	1	08/16/21	08/17/21	ND	SW846 6010D [2]	SW846 3010A [4]
Zinc	48.6	20	ug/l	1	08/16/21	08/19/21	ND	SW846 6010D [3]	SW846 3010A [4]

(1) Instrument QC Batch: MA50980
(2) Instrument QC Batch: MA50989
(3) Instrument QC Batch: MA51003
(4) Prep QC Batch: MP28059
(5) Prep QC Batch: MP28079

RL = Reporting Limit

Report of Analysis

Client Sample ID:	PFAS-BLANK		
Lab Sample ID:	JD29690-20	**Date Sampled:**	08/09/21
Matrix:	AQ - Field Blank Water	**Date Received:**	08/10/21
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HK2550, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2Q74263.D	1	08/17/21 15:37	AFL	08/16/21 10:00	F:OP86850	F:S2Q1060
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

PFAS List

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	3.8	1.9	ng/l	
2706-90-3	Perfluoropentanoic acid	ND	1.9	0.96	ng/l	
307-24-4	Perfluorohexanoic acid	ND	1.9	0.96	ng/l	
375-85-9	Perfluoroheptanoic acid	ND	1.9	0.96	ng/l	
335-67-1	Perfluorooctanoic acid	ND	1.9	0.96	ng/l	
375-95-1	Perfluorononanoic acid	ND	1.9	0.96	ng/l	
335-76-2	Perfluorodecanoic acid	ND	1.9	0.96	ng/l	
2058-94-8	Perfluoroundecanoic acid	ND	1.9	0.96	ng/l	
307-55-1	Perfluorododecanoic acid	ND	1.9	0.96	ng/l	
72629-94-8	Perfluorotridecanoic acid	ND	1.9	0.96	ng/l	
376-06-7	Perfluorotetradecanoic acid	ND	1.9	0.96	ng/l	
PERFLUOROALKYLSULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	1.9	0.96	ng/l	
355-46-4	Perfluorohexanesulfonic acid	ND	1.9	0.96	ng/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	1.9	0.96	ng/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	1.9	0.96	ng/l	
335-77-3	Perfluorodecanesulfonic acid	ND	1.9	0.96	ng/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA	ND	3.8	1.9	ng/l	
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	3.8	1.9	ng/l	
2991-50-6	EtFOSAA	ND	3.8	1.9	ng/l	
FLUOROTELOMER SULFONATES						
27619-97-2	6:2 Fluorotelomer sulfonate	ND	7.7	1.9	ng/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	7.7	1.9	ng/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PFAS-BLANK		
Lab Sample ID:	JD29690-20	**Date Sampled:**	08/09/21
Matrix:	AQ - Field Blank Water	**Date Received:**	08/10/21
Method:	EPA 537M BY ID EPA 537 MOD	**Percent Solids:**	n/a
Project:	HK2550, NY		

PFAS List

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	101%		35-135%
	13C5-PFPeA	104%		50-150%
	13C5-PFHxA	102%		50-150%
	13C4-PFHpA	99%		50-150%
	13C8-PFOA	95%		50-150%
	13C9-PFNA	89%		50-150%
	13C6-PFDA	88%		50-150%
	13C7-PFUnDA	85%		40-140%
	13C2-PFDoDA	85%		40-140%
	13C2-PFTeDA	86%		30-130%
	13C3-PFBS	99%		50-150%
	13C3-PFHxS	97%		50-150%
	13C8-PFOS	91%		50-150%
	13C8-FOSA	89%		30-130%
	d3-MeFOSAA	91%		40-140%
	d5-EtFOSAA	88%		40-140%
	13C2-6:2FTS	87%		50-150%
	13C2-8:2FTS	83%		50-150%

(a) Analysis performed at SGS Orlando, FL.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

SO
SLL
GW
FB

CHAIN OF CUSTODY

Page 1 of 2

SGS

EHSA-QAC-0023-04-FORM-Standard COC

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking #

Bottle Order Control # KR-083321-36

SGS Quote #

SGS Job # JD29690

Client / Reporting Information	Project Information	Requested Analysis	Matrix Codes
Company Name: HK Eng & Geo	Project Name: ~~HK-2554~~ HK-2550-1	TAL / TCL +30	DW - Drinking Water
Street Address: 1600 Rt. 22 East	Street:	PFAS	GW - Ground Water
City: Union State: NJ Zip: 07083	City: State:		WW - Water
Project Contact: R. Powell E-mail:	Project #: ~~HK-2554~~ HK-2550-1		SW - Surface Water
Phone #: (908) 688-7800	Client Purchase Order #: ~~HK-2554~~ HK-2550-1		SO - Soil
Sampler(s) Name(s): K. Powell Phone #:	Project Manager:		SL - Sludge
	Billing Information (if different from Report to)		SED-Sediment
	Company Name:		OI - Oil
	Street Address:		LIQ - Other Liquid
	City: State: Zip:		AIR - Air
	Attention:		SOL - Other Solid
			WP - Wipe
			FB - Field Blank
			EB-Equipment Blank
			RB - Rinse Blank
			TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)	LAB USE ONLY
1	S1A (0-2)		8-4-21	0920	RP	G		S	5									X	
2	S1B (2-4)			0930					4									X	X	D9T3
3	S2A (0-2)			1030					5									X		14F3
4	S2B (2-4)			1040					4									X	X	4D4
5	S3A (0-2)			1110					5									X		
6	S3B (2.5-4.5)			1120					4									X		
7	S4A (0-2)			1200					5									X		B107
8	S4B (3-5)			1210					4									X		A17
9	S5A (0-2)			1310					5									X		G52
10	S5B (3-5)			1315					4									X		8K0
11	S6A (0-2)			1400					5									X		0U8 TL
12	S6B (3-5)			1405					4									X		V32

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [x] 5 Business Days — INITIAL ASESSMENT TS 8/9
- [ ] 3 Business Days*
- [ ] 2 Business Days* — LABEL VERIFICATION
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [x] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria_____
- [ ] CT RCP Criteria_____
- [ ] State Forms
- [ ] EDD Format _____
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

HOLD ALL "A" samples EXCEPT S1A, S3A & S8A

• 3 x 5g Encore

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 K Powell	8/10/21	1	2	8/10/21 1901	2 Jeemit Patel
Relinquished by: 3	Date / Time:	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal # ☐ Intact ☐ Not intact ☐ Absent	Therm ID: See Sample Receipt Summary	On Ice: 3.0, 2.7, 2.5 Cooler Temp. °C: 2.2 CIP

CHAIN OF CUSTODY

SGS

EHSA-QAC-0023-04-FORM-Standard COC

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JD 29690

Client / Reporting Information

Company Name: HK Eng + Geo
Street Address:
City State Zip:
Project Contact E-mail:
Phone #:
Sampler(s) Name(s): K. Powell Phone #:

Project Information

Project Name: ~~HK-2554~~ HK-2550-1
Street:
City State:
Project #: HK-~~2554~~ 2550-1
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis

TAL/TCL+TIC | PFAS | Lab Filtered metals

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)	LAB USE ONLY
13	S7A (0-2)		8-9-21	1430					4									X	
14	S7B (3-5)			1435					4									X	
15	S8A (0-2)			1530					4									X	
	S8B (B)																		
16	S9A (0-2)			1550					4									X	
17F	TWP1			1020					10									X X X	
18F	TWP3			1135					10									X X X	
19F	TWP5		↓	1315					10									X X X	
20	PFAS-BLANK		8-9-21	1600					2									X X	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [x] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink
* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [x] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

HOLD ALL "A" SAMPLES EXCEPT S1A, S3A, & S8A
• 3 x 5g 8oz cc

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	K. Powell	8/10/21			8/10/21 1901	Jeemit Patel
2						
3						
4						
5						

Custody Seal # | Intact | Not intact | Absent | Therm ID: | On Ice | Cooler Temp. °C: See Sample Receipt Summary: ~~3.0~~, 2.7, 2.5, 2.2 cIP

SGS Sample Receipt Summary

Job Number: JD29690 **Client:** HILLMANN CONSULTING, LLC **Project:** HK2550, NY

Date / Time Received: 8/10/2021 7:01:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0); Cooler 2: (2.7); Cooler 3: (2.5); Cooler 4: (2.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.0); Cooler 2: (2.7); Cooler 3: (2.5); Cooler 4: (2.2);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD29690: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

HK Engineering & Geology, DPC

Job No: JD29690

HK2550, NY
Project No: PO#HK-2550-1

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29690-1 S1A (0-2)	Collected: 09-AUG-21 09:20 By: RP		Received: 10-AUG-21 By: JP			
JD29690-1	SM2540 G 18TH ED MOD	11-AUG-21 16:13	BG			SOL104
JD29690-1	SW846 8260D	11-AUG-21 19:07	PS			V8260TCL20+
JD29690-1	SW846 9012B/LACHAT	11-AUG-21 22:39	EB	11-AUG-21	BA	CN
JD29690-1	SW846 8081B	12-AUG-21 00:44	CP	11-AUG-21	KM	P8081PESTTCL
JD29690-1	SW846 8270E	12-AUG-21 10:18	CS	11-AUG-21	JH	AB8270TCL20+
JD29690-1	SW846 8082A	12-AUG-21 12:06	TC	11-AUG-21	KM	P8082PCB11AO
JD29690-1	SW846 7471B	13-AUG-21 13:55	LM	13-AUG-21	LM	HG
JD29690-1	SW846 6010D	15-AUG-21 12:13	ND	13-AUG-21	SF	AL,AS,BA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD29690-1	SW846 6010D	17-AUG-21 12:55	ND	13-AUG-21	SF	AG,BE,CA
JD29690-2 S1B (2-4)	Collected: 09-AUG-21 09:30 By: RP		Received: 10-AUG-21 By: JP			
JD29690-2	SM2540 G 18TH ED MOD	11-AUG-21 16:13	BG			SOL104
JD29690-2	SW846 8260D	11-AUG-21 19:33	PS			V8260TCL20+
JD29690-2	SW846 9012B/LACHAT	11-AUG-21 22:43	EB	11-AUG-21	BA	CN
JD29690-2	SW846 8081B	12-AUG-21 01:02	CP	11-AUG-21	KM	P8081PESTTCL
JD29690-2	SW846 8082A	12-AUG-21 06:18	TC	11-AUG-21	KM	P8082PCB11AO
JD29690-2	SW846 8270E	12-AUG-21 08:35	CS	11-AUG-21	JH	AB8270TCL20+
JD29690-2	SW846 7471B	13-AUG-21 13:56	LM	13-AUG-21	LM	HG
JD29690-2	SW846 6010D	15-AUG-21 12:18	ND	13-AUG-21	SF	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD29690-2	EPA 537M BY ID	17-AUG-21 15:12	AFL	17-AUG-21		LCID537NY21
JD29690-4 S2B (2-4)	Collected: 09-AUG-21 10:40 By: RP		Received: 10-AUG-21 By: JP			
JD29690-4	SM2540 G 18TH ED MOD	11-AUG-21 16:13	BG			SOL104
JD29690-4	SW846 8260D	11-AUG-21 19:59	PS			V8260TCL20+
JD29690-4	SW846 8082A	11-AUG-21 22:20	TC	11-AUG-21	KM	P8082PCB11AO
JD29690-4	SW846 9012B/LACHAT	11-AUG-21 22:44	EB	11-AUG-21	BA	CN
JD29690-4	SW846 8081B	12-AUG-21 01:57	CP	11-AUG-21	KM	P8081PESTTCL
JD29690-4	SW846 8270E	12-AUG-21 07:42	CS	11-AUG-21	JH	AB8270TCL20+
JD29690-4	SW846 7471B	13-AUG-21 13:57	LM	13-AUG-21	LM	HG

Internal Sample Tracking Chronicle

HK Engineering & Geology, DPC

Job No: JD29690

HK2550, NY
Project No: PO#HK-2550-1

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29690-4	SW846 6010D	15-AUG-21 12:23	ND	13-AUG-21	SF	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD29690-4	EPA 537M BY ID	17-AUG-21 15:29	AFL	17-AUG-21		LCID537NY21
JD29690-5	Collected: 09-AUG-21 11:10 By: RP			Received: 10-AUG-21 By: JP		
S3A (0-2)						
JD29690-5	SM2540 G 18TH ED MOD	16-AUG-21 16:13	BG			SOL104
JD29690-5	SW846 8260D	11-AUG-21 20:25	PS			V8260TCL20+
JD29690-5	SW846 8082A	11-AUG-21 22:36	TC	11-AUG-21	KM	P8082PCB11AO
JD29690-5	SW846 9012B/LACHAT	11-AUG-21 22:46	EB	11-AUG-21	BA	CN
JD29690-5	SW846 8081B	12-AUG-21 02:15	CP	11-AUG-21	KM	P8081PESTTCL
JD29690-5	SW846 8270E	12-AUG-21 11:11	CS	11-AUG-21	JH	AB8270TCL20+
JD29690-5	SW846 8270E	12-AUG-21 22:52	BL	11-AUG-21	JH	AB8270TCL20+
JD29690-5	SW846 7471B	13-AUG-21 13:59	LM	13-AUG-21	LM	HG
JD29690-5	SW846 6010D	15-AUG-21 12:28	ND	13-AUG-21	SF	AL,AS,BA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD29690-5	SW846 6010D	17-AUG-21 13:00	ND	13-AUG-21	SF	AG,BE,CA
JD29690-6	Collected: 09-AUG-21 11:20 By: RP			Received: 10-AUG-21 By: JP		
S3B (2.5-4.5)						
JD29690-6	SM2540 G 18TH ED MOD	16-AUG-21 16:13	BG			SOL104
JD29690-6	SW846 9012B/LACHAT	11-AUG-21 22:47	EB	11-AUG-21	BA	CN
JD29690-6	SW846 8082A	11-AUG-21 22:53	TC	11-AUG-21	KM	P8082PCB11AO
JD29690-6	SW846 8270E	12-AUG-21 09:01	CS	11-AUG-21	JH	AB8270TCL20+
JD29690-6	SW846 8260D	12-AUG-21 19:59	PS			V8260TCL20+
JD29690-6	SW846 7471B	13-AUG-21 14:04	LM	13-AUG-21	LM	HG
JD29690-6	SW846 6010D	15-AUG-21 12:43	ND	13-AUG-21	SF	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD29690-6	SW846 8081B	19-AUG-21 17:47	TC	19-AUG-21	TG	P8081PESTTCL
JD29690-8	Collected: 09-AUG-21 12:10 By: RP			Received: 10-AUG-21 By: JP		
S4B (3.5)						
JD29690-8	SM2540 G 18TH ED MOD	16-AUG-21 16:13	BG			SOL104
JD29690-8	SW846 9012B/LACHAT	11-AUG-21 22:48	EB	11-AUG-21	BA	CN

Internal Sample Tracking Chronicle

HK Engineering & Geology, DPC

Job No: JD29690

HK2550, NY
Project No: PO#HK-2550-1

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29690-8	SW846 8081B	12-AUG-21 02:51	CP	11-AUG-21	KM	P8081PESTTCL
JD29690-8	SW846 8082A	12-AUG-21 10:44	TC	11-AUG-21	KM	P8082PCB11AO
JD29690-8	SW846 8270E	12-AUG-21 10:45	CS	11-AUG-21	JH	AB8270TCL20+
JD29690-8	SW846 8260D	12-AUG-21 20:25	PS			V8260TCL20+
JD29690-8	SW846 8270E	12-AUG-21 22:26	BL	11-AUG-21	JH	AB8270TCL20+
JD29690-8	SW846 7471B	13-AUG-21 14:05	LM	13-AUG-21	LM	HG
JD29690-8	SW846 6010D	15-AUG-21 12:48	ND	13-AUG-21	SF	AL,AS,BA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD29690-8	SW846 6010D	17-AUG-21 13:05	ND	13-AUG-21	SF	AG,BE,CA
JD29690-10	Collected: 09-AUG-21 13:15 By: RP S5B (3-5)			Received: 10-AUG-21 By: JP		
JD29690-10	SM2540 G 18TH ED MOD	11-AUG-21 16:13	BG			SOL104
JD29690-10	SW846 9012B/LACHAT	11-AUG-21 22:50	EB	11-AUG-21	BA	CN
JD29690-10	SW846 8270E	12-AUG-21 09:27	CS	11-AUG-21	JH	AB8270TCL20+
JD29690-10	SW846 8082A	12-AUG-21 11:00	TC	11-AUG-21	KM	P8082PCB11AO
JD29690-10	SW846 8260D	12-AUG-21 20:51	PS			V8260TCL20+
JD29690-10	SW846 7471B	13-AUG-21 14:07	LM	13-AUG-21	LM	HG
JD29690-10	SW846 6010D	15-AUG-21 12:54	ND	13-AUG-21	SF	AG,AL,AS,BA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD29690-10	SW846 6010D	17-AUG-21 13:10	ND	13-AUG-21	SF	BE,CA
JD29690-10	SW846 8081B	18-AUG-21 13:15	TC	11-AUG-21	KM	P8081PESTTCL
JD29690-12	Collected: 09-AUG-21 14:05 By: RP S6B (3-5)			Received: 10-AUG-21 By: JP		
JD29690-12	SM2540 G 18TH ED MOD	11-AUG-21 16:13	BG			SOL104
JD29690-12	SW846 9012B/LACHAT	11-AUG-21 22:51	EB	11-AUG-21	BA	CN
JD29690-12	SW846 8082A	12-AUG-21 11:16	TC	11-AUG-21	KM	P8082PCB11AO
JD29690-12	SW846 8270E	12-AUG-21 11:37	CS	11-AUG-21	JH	AB8270TCL20+
JD29690-12	SW846 8270E	12-AUG-21 20:13	BL	11-AUG-21	JH	AB8270TCL20+
JD29690-12	SW846 8260D	12-AUG-21 21:17	PS			V8260TCL20+
JD29690-12	SW846 7471B	13-AUG-21 14:21	LM	13-AUG-21	LM	HG
JD29690-12	SW846 6010D	15-AUG-21 12:03	ND	13-AUG-21	SF	AL,AS,BA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD29690-12	SW846 6010D	17-AUG-21 12:45	ND	13-AUG-21	SF	AG,BE,CA

Internal Sample Tracking Chronicle

HK Engineering & Geology, DPC

Job No: JD29690

HK2550, NY
Project No: PO#HK-2550-1

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29690-12	SW846 8081B	18-AUG-21 01:20	CP	11-AUG-21	KM	P8081PESTTCL
JD29690-14	Collected: 09-AUG-21 14:35 By: RP		Received: 10-AUG-21 By: JP			
S7B (3-5)						
JD29690-14	SM2540 G 18TH ED MOD.	11-AUG-21 16:13	BG			SOL104
JD29690-14	SW846 9012B/LACHAT	11-AUG-21 22:52	EB	11-AUG-21	BA	CN
JD29690-14	SW846 8082A	12-AUG-21 11:33	TC	11-AUG-21	KM	P8082PCB11AO
JD29690-14	SW846 8270E	12-AUG-21 12:03	CS	11-AUG-21	JH	AB8270TCL20+
JD29690-14	SW846 8260D	12-AUG-21 21:43	PS			V8260TCL20+
JD29690-14	SW846 8270E	12-AUG-21 23:19	BL	11-AUG-21	JH	AB8270TCL20+
JD29690-14	SW846 8270E	12-AUG-21 23:45	BL	11-AUG-21	JH	AB8270TCL20+
JD29690-14	SW846 7471B	13-AUG-21 14:23	LM	13-AUG-21	LM	HG
JD29690-14	SW846 6010D	15-AUG-21 12:58	ND	13-AUG-21	SF	AL,AS,BA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD29690-14	SW846 6010D	17-AUG-21 13:25	ND	13-AUG-21	SF	AG,BE,CA
JD29690-14	SW846 8081B	18-AUG-21 01:38	CP	11-AUG-21	KM	P8081PESTTCL
JD29690-14	SW846 8081B	18-AUG-21 03:36	CP	17-AUG-21	NT	P8081PESTTCL
JD29690-15	Collected: 09-AUG-21 15:30 By: RP		Received: 10-AUG-21 By: JP			
S8A (0-2)						
JD29690-15	SM2540 G 18TH ED MOD.	11-AUG-21 16:13	BG			SOL104
JD29690-15	SW846 9012B/LACHAT	11-AUG-21 22:54	EB	11-AUG-21	BA	CN
JD29690-15	SW846 8270E	12-AUG-21 09:52	CS	11-AUG-21	JH	AB8270TCL20+
JD29690-15	SW846 8082A	12-AUG-21 11:49	TC	11-AUG-21	KM	P8082PCB11AO
JD29690-15	SW846 8270E	12-AUG-21 21:59	BL	11-AUG-21	JH	AB8270TCL20+
JD29690-15	SW846 8260D	12-AUG-21 22:09	PS			V8260TCL20+
JD29690-15	SW846 7471B	13-AUG-21 14:25	LM	13-AUG-21	LM	HG
JD29690-15	SW846 6010D	15-AUG-21 13:04	ND	13-AUG-21	SF	AG,AL,AS,BA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD29690-15	SW846 8081B	17-AUG-21 12:30	TC	11-AUG-21	KM	P8081PESTTCL
JD29690-15	SW846 6010D	17-AUG-21 13:30	ND	13-AUG-21	SF	BE,CA
JD29690-17	Collected: 09-AUG-21 10:20 By: RP		Received: 10-AUG-21 By: JP			
TWP1						
JD29690-17	EPA 335.4/LACHAT	11-AUG-21 22:18	EB	11-AUG-21	BA	CN

Internal Sample Tracking Chronicle

HK Engineering & Geology, DPC

Job No: JD29690

HK2550, NY
Project No: PO#HK-2550-1

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29690-17	SW846 6010D	13-AUG-21 03:06	ND	12-AUG-21	AK	AG,AL,BA,BE,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,SB,SE,TL,V,ZN
JD29690-17	SW846 8270E	13-AUG-21 06:26	CS	11-AUG-21	JL	AB8270TCL20+
JD29690-17	SW846 8081B	13-AUG-21 11:31	TC	12-AUG-21	NW	P8081PESTTCL
JD29690-17	SW846 7470A	16-AUG-21 12:30	LM	16-AUG-21	LM	HG
JD29690-17	SW846 8260D	16-AUG-21 19:52	MD			V8260TCL20+
JD29690-17	SW846 8082A	16-AUG-21 23:11	RK	12-AUG-21	NW	P8082PCB11AO
JD29690-17	SW846 6010D	17-AUG-21 07:27	ND	12-AUG-21	AK	AS,CA,PB
JD29690-17	EPA 537M BY ID	17-AUG-21 14:49	AFL	16-AUG-21		LCID537NY21
JD29690-17	EPA 537M BY ID	18-AUG-21 10:02	AFL	16-AUG-21		LCID537NY21
JD29690-17	EPA 537M BY ID	18-AUG-21 10:23	AFL	16-AUG-21		LCID537NY21
JD29690-18	Collected: 09-AUG-21 11:35 By: RP			Received: 10-AUG-21 By: JP		
TWP3						
JD29690-18	EPA 335.4/LACHAT	11-AUG-21 22:20	EB	11-AUG-21	BA	CN
JD29690-18	SW846 8082A	13-AUG-21 02:16	RK	12-AUG-21	NW	P8082PCB11AO
JD29690-18	SW846 6010D	13-AUG-21 03:11	ND	12-AUG-21	AK	AG,AL,AS,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN
JD29690-18	SW846 8081B	13-AUG-21 04:19	CP	12-AUG-21	NW	P8081PESTTCL
JD29690-18	SW846 8270E	13-AUG-21 07:48	CS	11-AUG-21	JL	AB8270TCL20+
JD29690-18	SW846 7470A	16-AUG-21 12:32	LM	16-AUG-21	LM	HG
JD29690-18	SW846 8260D	16-AUG-21 20:20	MD			V8260TCL20+
JD29690-18	EPA 537M BY ID	17-AUG-21 15:05	AFL	16-AUG-21		LCID537NY21
JD29690-18	EPA 537M BY ID	18-AUG-21 10:39	AFL	16-AUG-21		LCID537NY21
JD29690-18	EPA 537M BY ID	18-AUG-21 10:55	AFL	16-AUG-21		LCID537NY21
JD29690-19	Collected: 09-AUG-21 13:15 By: RP			Received: 10-AUG-21 By: JP		
TWP5						
JD29690-19	EPA 335.4/LACHAT	11-AUG-21 22:21	EB	11-AUG-21	BA	CN
JD29690-19	SW846 8082A	13-AUG-21 02:34	RK	12-AUG-21	NW	P8082PCB11AO
JD29690-19	SW846 8081B	13-AUG-21 04:37	CP	12-AUG-21	NW	P8081PESTTCL
JD29690-19	SW846 8270E	13-AUG-21 08:43	CS	11-AUG-21	JL	AB8270TCL20+
JD29690-19	SW846 7470A	16-AUG-21 12:33	LM	16-AUG-21	LM	HG
JD29690-19	SW846 8260D	16-AUG-21 20:49	MD			V8260TCL20+
JD29690-19	SW846 6010D	17-AUG-21 02:13	ND	16-AUG-21	AK	AG,AL,BA,BE,CA,CD,CO,CR,CU,FE,K,MG,MN,NA,NI,PB,SB,SE,TL,V,ZN

Internal Sample Tracking Chronicle

HK Engineering & Geology, DPC

Job No: JD29690

HK2550, NY
Project No: PO#HK-2550-1

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29690-19	EPA 537M BY ID	17-AUG-21 15:21	AFL	16-AUG-21		LCID537NY21
JD29690-19	EPA 537M BY ID	18-AUG-21 11:11	AFL	16-AUG-21		LCID537NY21
JD29690-19	EPA 537M BY ID	18-AUG-21 11:27	AFL	16-AUG-21		LCID537NY21
JD29690-19	SW846 6010D	19-AUG-21 13:16	ND	16-AUG-21	AK	AS
JD29690-20	Collected: 09-AUG-21 15:50 By: RP			Received: 10-AUG-21 By: JP		
PFAS-BLANK						
JD29690-20	EPA 537M BY ID	17-AUG-21 15:37	AFL	16-AUG-21		LCID537NY21
JD29690-17F	Collected: 09-AUG-21 10:20 By: RP			Received: 10-AUG-21 By: JP		
TWP1						
JD29690-17F	SW846 6010D	13-AUG-21 03:26	ND	12-AUG-21	AK	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V,ZN
JD29690-17F	SW846 7470A	16-AUG-21 12:35	LM	16-AUG-21	LM	HG
JD29690-18F	Collected: 09-AUG-21 11:35 By: RP			Received: 10-AUG-21 By: JP		
TWP3						
JD29690-18F	SW846 6010D	13-AUG-21 03:31	ND	12-AUG-21	AK	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,K,MG,MN,NA,NI,PB,SB,SE, TL,V,ZN
JD29690-18F	SW846 7470A	16-AUG-21 12:39	LM	16-AUG-21	LM	HG
JD29690-18F	SW846 6010D	17-AUG-21 07:32	ND	12-AUG-21	AK	FE
JD29690-19F	Collected: 09-AUG-21 13:15 By: RP			Received: 10-AUG-21 By: JP		
TWP5						
JD29690-19F	SW846 7470A	16-AUG-21 12:41	LM	16-AUG-21	LM	HG
JD29690-19F	SW846 6010D	17-AUG-21 02:18	ND	16-AUG-21	AK	AG,AL,AS,BA,BE,CA,CD,CO,CR, CU,FE,K,MG,MN,NA,NI,PB,SB, SE,TL,V
JD29690-19F	SW846 6010D	19-AUG-21 13:21	ND	16-AUG-21	AK	ZN

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-1.1	Tyler Strong	Secured Storage	08/11/21 00:51	Return to Storage
JD29690-1.1	Secured Storage	Dave Hunkele	08/11/21 08:51	Retrieve from Storage
JD29690-1.1	Dave Hunkele	Secured Staging Area	08/11/21 08:52	Return to Storage
JD29690-1.1	Secured Staging Area	Bianca Asaro	08/11/21 09:45	Retrieve from Storage
JD29690-1.1	Bianca Asaro	Secured Storage	08/11/21 18:26	Return to Storage
JD29690-1.2	Tyler Strong	Secured Storage	08/11/21 00:51	Return to Storage
JD29690-1.2	Secured Storage	Todd Shoemaker	08/11/21 08:00	Retrieve from Storage
JD29690-1.2	Todd Shoemaker	Secured Staging Area	08/11/21 08:01	Return to Storage
JD29690-1.2	Secured Staging Area	Chatiyah Canaday	08/11/21 08:05	Retrieve from Storage
JD29690-1.2	Chatiyah Canaday	Secured Storage	08/11/21 14:15	Return to Storage
JD29690-1.2	Secured Storage	Todd Shoemaker	08/12/21 14:21	Retrieve from Storage
JD29690-1.2	Todd Shoemaker	Secured Staging Area	08/12/21 14:21	Return to Storage
JD29690-1.2	Secured Staging Area	Alyssa Koshy	08/12/21 14:33	Retrieve from Storage
JD29690-1.2	Alyssa Koshy	Secured Storage	08/13/21 11:34	Return to Storage
JD29690-1.2.1	Chatiyah Canaday	Organics Prep	08/11/21 08:16	Extract from JD29690-1.2
JD29690-1.2.1	Organics Prep	Jack Hennigan	08/11/21 23:00	Extract from JD29690-1.2
JD29690-1.2.1	Jack Hennigan	Extract Storage	08/11/21 23:00	Return to Storage
JD29690-1.2.1	Extract Storage	Christopher Sowa	08/12/21 02:17	Retrieve from Storage
JD29690-1.2.1	Christopher Sowa	GCMSZ	08/12/21 02:17	Load on Instrument
JD29690-1.2.1	GCMSZ	Brandon Loch	08/13/21 10:16	Unload from Instrument
JD29690-1.2.1	Brandon Loch	Extract Freezer	08/13/21 10:16	Return to Storage
JD29690-1.2.2	Chatiyah Canaday	Organics Prep	08/11/21 08:29	Extract from JD29690-1.2
JD29690-1.2.2	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-1.2
JD29690-1.2.2	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-1.2.2	Extract Storage	Taylor Cavanaugh	08/11/21 18:12	Retrieve from Storage
JD29690-1.2.2	Taylor Cavanaugh	GCRK	08/11/21 18:12	Load on Instrument
JD29690-1.2.3	Chatiyah Canaday	Organics Prep	08/11/21 08:32	Extract from JD29690-1.2
JD29690-1.2.3	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-1.2
JD29690-1.2.3	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-1.2.3	Extract Storage	Christine Phillips	08/11/21 23:28	Retrieve from Storage
JD29690-1.2.3	Christine Phillips	GC6G	08/11/21 23:28	Load on Instrument
JD29690-1.2.4	Alyssa Koshy	Metals Digestion	08/13/21 11:31	Digestate from JD29690-1.2
JD29690-1.2.4	Metals Digestion	Alyssa Koshy	08/13/21 11:32	Digestate from JD29690-1.2
JD29690-1.2.4	Alyssa Koshy	Metals Digestate Storage	08/13/21 11:32	Return to Storage
JD29690-1.3	Secured Storage	Jayna Patel	08/11/21 08:45	Retrieve from Storage
JD29690-1.3	Jayna Patel	Secured Storage	08/11/21 08:45	Return to Storage
JD29690-1.5	Secured Storage	Prashant Shukla	08/11/21 15:27	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-1.5	Prashant Shukla	GCMS3C	08/11/21 15:27	Load on Instrument
JD29690-1.5	GCMS3C	Prashant Shukla	08/12/21 09:20	Unload from Instrument
JD29690-1.5	Prashant Shukla		08/12/21 09:21	Depleted
JD29690-2.1	Secured Storage	Todd Shoemaker	08/11/21 08:00	Retrieve from Storage
JD29690-2.1	Todd Shoemaker	Secured Staging Area	08/11/21 08:01	Return to Storage
JD29690-2.1	Secured Staging Area	Chatiyah Canaday	08/11/21 08:05	Retrieve from Storage
JD29690-2.1	Chatiyah Canaday	Rachel Koshy	08/11/21 12:16	Custody Transfer
JD29690-2.1	Secured Storage	Todd Shoemaker	08/12/21 13:58	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29690-2.1	Todd Shoemaker	Secured Staging Area	08/12/21 13:59	Return to Storage
JD29690-2.1	Secured Staging Area	Lauren Matthews	08/12/21 14:01	Retrieve from Storage
JD29690-2.1	Lauren Matthews	Secured Storage	08/13/21 10:16	Return to Storage
JD29690-2.1	Secured Storage	Alyssa Koshy	08/13/21 11:30	Retrieve from Storage
JD29690-2.1	Alyssa Koshy	Secured Storage	08/13/21 11:34	Return to Storage
JD29690-2.1.1	Chatiyah Canaday	Organics Prep	08/11/21 08:16	Extract from JD29690-2.1
JD29690-2.1.1	Organics Prep	Jack Hennigan	08/11/21 23:00	Extract from JD29690-2.1
JD29690-2.1.1	Jack Hennigan	Extract Storage	08/11/21 23:00	Return to Storage
JD29690-2.1.1	Extract Storage	Christopher Sowa	08/12/21 02:17	Retrieve from Storage
JD29690-2.1.1	Christopher Sowa	GCMSZ	08/12/21 02:17	Load on Instrument
JD29690-2.1.1	GCMSZ	Brandon Loch	08/13/21 10:16	Unload from Instrument
JD29690-2.1.1	Brandon Loch	Extract Freezer	08/13/21 10:16	Return to Storage
JD29690-2.1.2	Chatiyah Canaday	Organics Prep	08/11/21 08:29	Extract from JD29690-2.1
JD29690-2.1.2	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-2.1
JD29690-2.1.2	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-2.1.2	Extract Storage	Taylor Cavanaugh	08/11/21 18:12	Retrieve from Storage
JD29690-2.1.2	Taylor Cavanaugh	GCRK	08/11/21 18:12	Load on Instrument
JD29690-2.1.3	Chatiyah Canaday	Organics Prep	08/11/21 08:32	Extract from JD29690-2.1
JD29690-2.1.3	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-2.1
JD29690-2.1.3	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-2.1.3	Extract Storage	Christine Phillips	08/11/21 23:28	Retrieve from Storage
JD29690-2.1.3	Christine Phillips	GC6G	08/11/21 23:28	Load on Instrument
JD29690-2.1.4	Alyssa Koshy	Metals Digestion	08/13/21 11:31	Digestate from JD29690-2.1
JD29690-2.1.4	Metals Digestion	Alyssa Koshy	08/13/21 11:32	Digestate from JD29690-2.1
JD29690-2.1.4	Alyssa Koshy	Metals Digestate Storage	08/13/21 11:32	Return to Storage
JD29690-2.2	Tyler Strong	Secured Storage	08/11/21 00:49	Return to Storage
JD29690-2.2	Tyler Strong		08/12/21 16:58	Subcontract
sub				

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-2.3	Secured Storage	Jayna Patel	08/11/21 08:45	Retrieve from Storage
JD29690-2.3	Jayna Patel	Secured Storage	08/11/21 08:45	Return to Storage
JD29690-2.5	Secured Storage	Prashant Shukla	08/11/21 15:27	Retrieve from Storage
JD29690-2.5	Prashant Shukla	GCMS3C	08/11/21 15:27	Load on Instrument
JD29690-2.5	GCMS3C	Prashant Shukla	08/12/21 09:20	Unload from Instrument
JD29690-2.5	Prashant Shukla		08/12/21 09:21	Depleted
JD29690-3.1	Tyler Strong	Secured Storage	08/11/21 00:51	Return to Storage
JD29690-3.2	Tyler Strong	Secured Storage	08/11/21 00:51	Return to Storage
JD29690-3.3	Secured Storage	Jayna Patel	08/11/21 08:45	Retrieve from Storage
JD29690-3.3	Jayna Patel	Secured Storage	08/11/21 08:45	Return to Storage
JD29690-4.1	Secured Storage	Todd Shoemaker	08/11/21 08:00	Retrieve from Storage
JD29690-4.1	Todd Shoemaker	Secured Staging Area	08/11/21 08:01	Return to Storage
JD29690-4.1	Secured Staging Area	Chatiyah Canaday	08/11/21 08:05	Retrieve from Storage
JD29690-4.1	Chatiyah Canaday	Rachel Koshy	08/11/21 12:16	Custody Transfer
JD29690-4.1	Secured Storage	Todd Shoemaker	08/12/21 13:58	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29690-4.1	Todd Shoemaker	Secured Staging Area	08/12/21 13:59	Return to Storage
JD29690-4.1	Secured Staging Area	Lauren Matthews	08/12/21 14:01	Retrieve from Storage
JD29690-4.1	Lauren Matthews	Secured Storage	08/13/21 10:16	Return to Storage
JD29690-4.1	Secured Storage	Alyssa Koshy	08/13/21 11:30	Retrieve from Storage
JD29690-4.1	Alyssa Koshy	Secured Storage	08/13/21 11:34	Return to Storage
JD29690-4.1.1	Chatiyah Canaday	Organics Prep	08/11/21 08:16	Extract from JD29690-4.1
JD29690-4.1.1	Organics Prep	Jack Hennigan	08/11/21 23:00	Extract from JD29690-4.1
JD29690-4.1.1	Jack Hennigan	Extract Storage	08/11/21 23:00	Return to Storage
JD29690-4.1.1	Extract Storage	Christopher Sowa	08/12/21 02:17	Retrieve from Storage
JD29690-4.1.1	Christopher Sowa	GCMSZ	08/12/21 02:17	Load on Instrument
JD29690-4.1.1	GCMSZ	Brandon Loch	08/13/21 10:16	Unload from Instrument
JD29690-4.1.1	Brandon Loch	Extract Freezer	08/13/21 10:16	Return to Storage
JD29690-4.1.2	Chatiyah Canaday	Organics Prep	08/11/21 08:29	Extract from JD29690-4.1
JD29690-4.1.2	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-4.1
JD29690-4.1.2	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-4.1.2	Extract Storage	Taylor Cavanaugh	08/11/21 18:12	Retrieve from Storage
JD29690-4.1.2	Taylor Cavanaugh	GCRK	08/11/21 18:12	Load on Instrument
JD29690-4.1.3	Chatiyah Canaday	Organics Prep	08/11/21 08:32	Extract from JD29690-4.1
JD29690-4.1.3	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-4.1
JD29690-4.1.3	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-4.1.3	Extract Storage	Christine Phillips	08/11/21 23:28	Retrieve from Storage
JD29690-4.1.3	Christine Phillips	GC6G	08/11/21 23:28	Load on Instrument
JD29690-4.1.4	Alyssa Koshy	Metals Digestion	08/13/21 11:31	Digestate from JD29690-4.1
JD29690-4.1.4	Metals Digestion	Alyssa Koshy	08/13/21 11:32	Digestate from JD29690-4.1
JD29690-4.1.4	Alyssa Koshy	Metals Digestate Storage	08/13/21 11:32	Return to Storage
JD29690-4.2	Tyler Strong	Secured Storage	08/11/21 00:49	Return to Storage
JD29690-4.2 sub	Tyler Strong		08/12/21 16:58	Subcontract
JD29690-4.3	Secured Storage	Jayna Patel	08/11/21 08:45	Retrieve from Storage
JD29690-4.3	Jayna Patel	Secured Storage	08/11/21 08:45	Return to Storage
JD29690-4.5	Secured Storage	Prashant Shukla	08/11/21 15:27	Retrieve from Storage
JD29690-4.5	Prashant Shukla	GCMS3C	08/11/21 15:27	Load on Instrument
JD29690-4.5	GCMS3C	Prashant Shukla	08/12/21 09:20	Unload from Instrument
JD29690-4.5	Prashant Shukla		08/12/21 09:21	Depleted
JD29690-5.1	Tyler Strong	Secured Storage	08/11/21 00:51	Return to Storage
JD29690-5.1	Secured Storage	Todd Shoemaker	08/11/21 08:00	Retrieve from Storage
JD29690-5.1	Todd Shoemaker	Secured Staging Area	08/11/21 08:01	Return to Storage
JD29690-5.1	Secured Staging Area	Chatiyah Canaday	08/11/21 08:05	Retrieve from Storage
JD29690-5.1	Chatiyah Canaday	Secured Storage	08/11/21 14:15	Return to Storage
JD29690-5.1	Secured Storage	Todd Shoemaker	08/12/21 14:21	Retrieve from Storage
JD29690-5.1	Todd Shoemaker	Secured Staging Area	08/12/21 14:21	Return to Storage
JD29690-5.1	Secured Staging Area	Alyssa Koshy	08/12/21 14:33	Retrieve from Storage
JD29690-5.1	Alyssa Koshy	Secured Storage	08/13/21 11:34	Return to Storage
JD29690-5.1.1	Chatiyah Canaday	Organics Prep	08/11/21 08:16	Extract from JD29690-5.1
JD29690-5.1.1	Organics Prep	Jack Hennigan	08/11/21 23:00	Extract from JD29690-5.1
JD29690-5.1.1	Jack Hennigan	Extract Storage	08/11/21 23:00	Return to Storage
JD29690-5.1.1	Extract Storage	Christopher Sowa	08/12/21 02:17	Retrieve from Storage
JD29690-5.1.1	Christopher Sowa	GCMSZ	08/12/21 02:17	Load on Instrument
JD29690-5.1.1	GCMSZ	Brandon Loch	08/13/21 10:16	Unload from Instrument
JD29690-5.1.1	Brandon Loch	Extract Freezer	08/13/21 10:16	Return to Storage
JD29690-5.1.2	Chatiyah Canaday	Organics Prep	08/11/21 08:29	Extract from JD29690-5.1
JD29690-5.1.2	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-5.1
JD29690-5.1.2	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-5.1.2	Extract Storage	Taylor Cavanaugh	08/11/21 18:12	Retrieve from Storage
JD29690-5.1.2	Taylor Cavanaugh	GCRK	08/11/21 18:12	Load on Instrument
JD29690-5.1.3	Chatiyah Canaday	Organics Prep	08/11/21 08:32	Extract from JD29690-5.1

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-5.1.3	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-5.1
JD29690-5.1.3	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-5.1.3	Extract Storage	Christine Phillips	08/11/21 23:28	Retrieve from Storage
JD29690-5.1.3	Christine Phillips	GC6G	08/11/21 23:28	Load on Instrument
JD29690-5.1.4	Alyssa Koshy	Metals Digestion	08/13/21 11:31	Digestate from JD29690-5.1
JD29690-5.1.4	Metals Digestion	Alyssa Koshy	08/13/21 11:32	Digestate from JD29690-5.1
JD29690-5.1.4	Alyssa Koshy	Metals Digestate Storage	08/13/21 11:32	Return to Storage
JD29690-5.2	Tyler Strong	Secured Storage	08/11/21 00:51	Return to Storage
JD29690-5.2	Secured Storage	Dave Hunkele	08/11/21 08:51	Retrieve from Storage
JD29690-5.2	Dave Hunkele	Secured Staging Area	08/11/21 08:52	Return to Storage
JD29690-5.2	Secured Staging Area	Bianca Asaro	08/11/21 09:45	Retrieve from Storage
JD29690-5.2	Bianca Asaro	Secured Storage	08/11/21 18:26	Return to Storage
JD29690-5.3	Secured Storage	Jayna Patel	08/11/21 08:45	Retrieve from Storage
JD29690-5.3	Jayna Patel	Secured Storage	08/11/21 08:45	Return to Storage
JD29690-5.5	Secured Storage	Prashant Shukla	08/11/21 15:27	Retrieve from Storage
JD29690-5.5	Prashant Shukla	GCMS3C	08/11/21 15:27	Load on Instrument
JD29690-5.5	GCMS3C	Prashant Shukla	08/12/21 09:20	Unload from Instrument
JD29690-5.5	Prashant Shukla		08/12/21 09:21	Depleted
JD29690-6.1	Secured Storage	Todd Shoemaker	08/11/21 08:00	Retrieve from Storage
JD29690-6.1	Todd Shoemaker	Secured Staging Area	08/11/21 08:01	Return to Storage
JD29690-6.1	Secured Staging Area	Chatiyah Canaday	08/11/21 08:05	Retrieve from Storage
JD29690-6.1	Chatiyah Canaday	Rachel Koshy	08/11/21 12:16	Custody Transfer
JD29690-6.1	Secured Storage	Todd Shoemaker	08/12/21 13:58	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29690-6.1	Todd Shoemaker	Secured Staging Area	08/12/21 13:59	Return to Storage
JD29690-6.1	Secured Staging Area	Lauren Matthews	08/12/21 14:01	Retrieve from Storage
JD29690-6.1	Lauren Matthews	Secured Storage	08/13/21 10:16	Return to Storage
JD29690-6.1	Secured Storage	Alyssa Koshy	08/13/21 11:30	Retrieve from Storage
JD29690-6.1	Alyssa Koshy	Secured Storage	08/13/21 11:34	Return to Storage
JD29690-6.1	Fernando Tatem	Secured Staging Area	08/19/21 00:55	Return to Storage
stage				
JD29690-6.1	Secured Staging Area	Taylor Gorman	08/19/21 06:32	Retrieve from Storage
JD29690-6.1	Taylor Gorman	Secured Storage	08/19/21 13:10	Return to Storage
JD29690-6.1.1	Chatiyah Canaday	Organics Prep	08/11/21 08:16	Extract from JD29690-6.1
JD29690-6.1.1	Organics Prep	Jack Hennigan	08/11/21 23:00	Extract from JD29690-6.1
JD29690-6.1.1	Jack Hennigan	Extract Storage	08/11/21 23:00	Return to Storage
JD29690-6.1.1	Extract Storage	Christopher Sowa	08/12/21 02:17	Retrieve from Storage
JD29690-6.1.1	Christopher Sowa	GCMSZ	08/12/21 02:17	Load on Instrument

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-6.1.1	GCMSZ	Brandon Loch	08/13/21 10:16	Unload from Instrument
JD29690-6.1.1	Brandon Loch	Extract Freezer	08/13/21 10:16	Return to Storage
JD29690-6.1.2	Chatiyah Canaday	Organics Prep	08/11/21 08:29	Extract from JD29690-6.1
JD29690-6.1.2	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-6.1
JD29690-6.1.2	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-6.1.2	Extract Storage	Taylor Cavanaugh	08/11/21 18:12	Retrieve from Storage
JD29690-6.1.2	Taylor Cavanaugh	GCRK	08/11/21 18:12	Load on Instrument
JD29690-6.1.3	Chatiyah Canaday	Organics Prep	08/11/21 08:32	Extract from JD29690-6.1
JD29690-6.1.3	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-6.1
JD29690-6.1.3	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-6.1.3	Extract Storage	Christine Phillips	08/11/21 23:28	Retrieve from Storage
JD29690-6.1.3	Christine Phillips	GC6G	08/11/21 23:28	Load on Instrument
JD29690-6.1.4	Alyssa Koshy	Metals Digestion	08/13/21 11:31	Digestate from JD29690-6.1
JD29690-6.1.4	Metals Digestion	Alyssa Koshy	08/13/21 11:32	Digestate from JD29690-6.1
JD29690-6.1.4	Alyssa Koshy	Metals Digestate Storage	08/13/21 11:32	Return to Storage
JD29690-6.1.5	Taylor Gorman	Organics Prep	08/19/21 06:37	Extract from JD29690-6.1
JD29690-6.1.5	Organics Prep	Taylor Gorman	08/19/21 15:59	Extract from JD29690-6.1
JD29690-6.1.5	Taylor Gorman	Extract Storage	08/19/21 15:59	Return to Storage
JD29690-6.1.5	Extract Storage	Taylor Cavanaugh	08/19/21 17:05	Retrieve from Storage
JD29690-6.1.5	Taylor Cavanaugh	GC1G	08/19/21 17:05	Load on Instrument
JD29690-6.2	Secured Storage	Jayna Patel	08/11/21 09:13	Retrieve from Storage
JD29690-6.2	Jayna Patel	Secured Storage	08/11/21 09:13	Return to Storage
JD29690-6.4	Secured Storage	Prashant Shukla	08/12/21 16:01	Retrieve from Storage
JD29690-6.4	Prashant Shukla	GCMS3C	08/12/21 16:01	Load on Instrument
JD29690-6.4	GCMS3C	Prashant Shukla	08/14/21 12:59	Unload from Instrument
JD29690-6.4	Prashant Shukla		08/14/21 13:00	Depleted
JD29690-7.1	Tyler Strong	Secured Storage	08/11/21 00:51	Return to Storage
JD29690-7.2	Tyler Strong	Secured Storage	08/11/21 00:51	Return to Storage
JD29690-7.3	Secured Storage	Jayna Patel	08/11/21 09:13	Retrieve from Storage
JD29690-7.3	Jayna Patel	Secured Storage	08/11/21 09:13	Return to Storage
JD29690-8.1	Secured Storage	Todd Shoemaker	08/11/21 08:00	Retrieve from Storage
JD29690-8.1	Todd Shoemaker	Secured Staging Area	08/11/21 08:01	Return to Storage
JD29690-8.1	Secured Staging Area	Chatiyah Canaday	08/11/21 08:05	Retrieve from Storage
JD29690-8.1	Chatiyah Canaday	Rachel Koshy	08/11/21 12:16	Custody Transfer

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-8.1	Secured Storage	Todd Shoemaker	08/12/21 13:58	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29690-8.1	Todd Shoemaker	Secured Staging Area	08/12/21 13:59	Return to Storage
JD29690-8.1	Secured Staging Area	Lauren Matthews	08/12/21 14:01	Retrieve from Storage
JD29690-8.1	Lauren Matthews	Secured Storage	08/13/21 10:16	Return to Storage
JD29690-8.1	Secured Storage	Alyssa Koshy	08/13/21 11:30	Retrieve from Storage
JD29690-8.1	Alyssa Koshy	Secured Storage	08/13/21 11:34	Return to Storage
JD29690-8.1.1	Chatiyah Canaday	Organics Prep	08/11/21 08:16	Extract from JD29690-8.1
JD29690-8.1.1	Organics Prep	Jack Hennigan	08/11/21 23:00	Extract from JD29690-8.1
JD29690-8.1.1	Jack Hennigan	Extract Storage	08/11/21 23:00	Return to Storage
JD29690-8.1.1	Extract Storage	Christopher Sowa	08/12/21 02:17	Retrieve from Storage
JD29690-8.1.1	Christopher Sowa	GCMSZ	08/12/21 02:17	Load on Instrument
JD29690-8.1.1	GCMSZ	Brandon Loch	08/13/21 10:16	Unload from Instrument
JD29690-8.1.1	Brandon Loch	Extract Freezer	08/13/21 10:16	Return to Storage
JD29690-8.1.2	Chatiyah Canaday	Organics Prep	08/11/21 08:29	Extract from JD29690-8.1
JD29690-8.1.2	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-8.1
JD29690-8.1.2	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-8.1.2	Extract Storage	Taylor Cavanaugh	08/11/21 18:12	Retrieve from Storage
JD29690-8.1.2	Taylor Cavanaugh	GCRK	08/11/21 18:12	Load on Instrument
JD29690-8.1.3	Chatiyah Canaday	Organics Prep	08/11/21 08:32	Extract from JD29690-8.1
JD29690-8.1.3	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-8.1
JD29690-8.1.3	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-8.1.3	Extract Storage	Christine Phillips	08/11/21 23:28	Retrieve from Storage
JD29690-8.1.3	Christine Phillips	GC6G	08/11/21 23:28	Load on Instrument
JD29690-8.1.4	Alyssa Koshy	Metals Digestion	08/13/21 11:31	Digestate from JD29690-8.1
JD29690-8.1.4	Metals Digestion	Alyssa Koshy	08/13/21 11:32	Digestate from JD29690-8.1
JD29690-8.1.4	Alyssa Koshy	Metals Digestate Storage	08/13/21 11:32	Return to Storage
JD29690-8.2	Secured Storage	Jayna Patel	08/11/21 09:13	Retrieve from Storage
JD29690-8.2	Jayna Patel	Secured Storage	08/11/21 09:13	Return to Storage
JD29690-8.4	Secured Storage	Prashant Shukla	08/12/21 16:01	Retrieve from Storage
JD29690-8.4	Prashant Shukla	GCMS3C	08/12/21 16:01	Load on Instrument
JD29690-8.4	GCMS3C	Prashant Shukla	08/14/21 12:59	Unload from Instrument
JD29690-8.4	Prashant Shukla		08/14/21 13:00	Depleted
JD29690-9.1	Tyler Strong	Secured Storage	08/11/21 00:51	Return to Storage
JD29690-9.2	Tyler Strong	Secured Storage	08/11/21 00:51	Return to Storage

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-9.3	Secured Storage	Jayna Patel	08/11/21 09:13	Retrieve from Storage
JD29690-9.3	Jayna Patel	Secured Storage	08/11/21 09:13	Return to Storage
JD29690-10.1	Secured Storage	Todd Shoemaker	08/11/21 08:00	Retrieve from Storage
JD29690-10.1	Todd Shoemaker	Secured Staging Area	08/11/21 08:01	Return to Storage
JD29690-10.1	Secured Staging Area	Chatiyah Canaday	08/11/21 08:05	Retrieve from Storage
JD29690-10.1	Chatiyah Canaday	Rachel Koshy	08/11/21 12:16	Custody Transfer
JD29690-10.1	Secured Storage	Todd Shoemaker	08/12/21 13:58	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29690-10.1	Todd Shoemaker	Secured Staging Area	08/12/21 13:59	Return to Storage
JD29690-10.1	Secured Staging Area	Lauren Matthews	08/12/21 14:01	Retrieve from Storage
JD29690-10.1	Lauren Matthews	Secured Storage	08/13/21 10:16	Return to Storage
JD29690-10.1	Secured Storage	Alyssa Koshy	08/13/21 11:30	Retrieve from Storage
JD29690-10.1	Alyssa Koshy	Secured Storage	08/13/21 11:34	Return to Storage
JD29690-10.1	Secured Storage	Todd Shoemaker	08/17/21 07:43	Retrieve from Storage
JD29690-10.1	Todd Shoemaker	Secured Staging Area	08/17/21 07:43	Return to Storage
JD29690-10.1	Secured Staging Area	Chatiyah Canaday	08/17/21 07:46	Retrieve from Storage
JD29690-10.1	Chatiyah Canaday	Secured Storage	08/17/21 13:13	Return to Storage
JD29690-10.1.1	Chatiyah Canaday	Organics Prep	08/11/21 08:16	Extract from JD29690-10.1
JD29690-10.1.1	Organics Prep	Jack Hennigan	08/11/21 23:00	Extract from JD29690-10.1
JD29690-10.1.1	Jack Hennigan	Extract Storage	08/11/21 23:00	Return to Storage
JD29690-10.1.1	Extract Storage	Christopher Sowa	08/12/21 02:17	Retrieve from Storage
JD29690-10.1.1	Christopher Sowa	GCMSZ	08/12/21 02:17	Load on Instrument
JD29690-10.1.1	GCMSZ	Brandon Loch	08/13/21 10:16	Unload from Instrument
JD29690-10.1.1	Brandon Loch	Extract Freezer	08/13/21 10:16	Return to Storage
JD29690-10.1.2	Chatiyah Canaday	Organics Prep	08/11/21 08:29	Extract from JD29690-10.1
JD29690-10.1.2	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-10.1
JD29690-10.1.2	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-10.1.2	Extract Storage	Taylor Cavanaugh	08/11/21 18:12	Retrieve from Storage
JD29690-10.1.2	Taylor Cavanaugh	GCRK	08/11/21 18:12	Load on Instrument
JD29690-10.1.3	Chatiyah Canaday	Organics Prep	08/11/21 08:32	Extract from JD29690-10.1
JD29690-10.1.3	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-10.1
JD29690-10.1.3	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-10.1.3	Extract Storage	Christine Phillips	08/11/21 23:28	Retrieve from Storage
JD29690-10.1.3	Christine Phillips	GC6G	08/11/21 23:28	Load on Instrument
JD29690-10.1.4	Alyssa Koshy	Metals Digestion	08/13/21 11:31	Digestate from JD29690-10.1
JD29690-10.1.4	Metals Digestion	Alyssa Koshy	08/13/21 11:32	Digestate from JD29690-10.1
JD29690-10.1.4	Alyssa Koshy	Metals Digestate Storage	08/13/21 11:32	Return to Storage
JD29690-10.1.5	Chatiyah Canaday	Organics Prep	08/17/21 08:01	Extract from JD29690-10.1

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-10.2	Secured Storage	Jayna Patel	08/11/21 09:13	Retrieve from Storage
JD29690-10.2	Jayna Patel	Secured Storage	08/11/21 09:13	Return to Storage
JD29690-10.4	Secured Storage	Prashant Shukla	08/12/21 16:01	Retrieve from Storage
JD29690-10.4	Prashant Shukla	GCMS3C	08/12/21 16:01	Load on Instrument
JD29690-10.4	GCMS3C	Prashant Shukla	08/14/21 12:59	Unload from Instrument
JD29690-10.4	Prashant Shukla		08/14/21 13:00	Depleted
JD29690-11.3	Secured Storage	Jayna Patel	08/11/21 09:13	Retrieve from Storage
JD29690-11.3	Jayna Patel	Secured Storage	08/11/21 09:13	Return to Storage
JD29690-12.1	Secured Storage	Todd Shoemaker	08/11/21 08:00	Retrieve from Storage
JD29690-12.1	Todd Shoemaker	Secured Staging Area	08/11/21 08:01	Return to Storage
JD29690-12.1	Secured Staging Area	Chatiyah Canaday	08/11/21 08:05	Retrieve from Storage
JD29690-12.1	Chatiyah Canaday	Rachel Koshy	08/11/21 12:16	Custody Transfer
JD29690-12.1	Secured Storage	Todd Shoemaker	08/12/21 13:58	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29690-12.1	Todd Shoemaker	Secured Staging Area	08/12/21 13:59	Return to Storage
JD29690-12.1	Secured Staging Area	Lauren Matthews	08/12/21 14:01	Retrieve from Storage
JD29690-12.1	Lauren Matthews	Secured Storage	08/13/21 10:16	Return to Storage
JD29690-12.1	Secured Storage	Alyssa Koshy	08/13/21 11:30	Retrieve from Storage
JD29690-12.1	Alyssa Koshy	Secured Storage	08/13/21 11:34	Return to Storage
JD29690-12.1	Secured Storage	Todd Shoemaker	08/17/21 07:43	Retrieve from Storage
JD29690-12.1	Todd Shoemaker	Secured Staging Area	08/17/21 07:43	Return to Storage
JD29690-12.1	Secured Staging Area	Chatiyah Canaday	08/17/21 07:46	Retrieve from Storage
JD29690-12.1	Chatiyah Canaday	Secured Storage	08/17/21 13:13	Return to Storage
JD29690-12.1.1	Chatiyah Canaday	Organics Prep	08/11/21 08:16	Extract from JD29690-12.1
JD29690-12.1.1	Organics Prep	Jack Hennigan	08/11/21 23:00	Extract from JD29690-12.1
JD29690-12.1.1	Jack Hennigan	Extract Storage	08/11/21 23:00	Return to Storage
JD29690-12.1.1	Extract Storage	Christopher Sowa	08/12/21 02:17	Retrieve from Storage
JD29690-12.1.1	Christopher Sowa	GCMSZ	08/12/21 02:17	Load on Instrument
JD29690-12.1.1	GCMSZ	Brandon Loch	08/13/21 10:16	Unload from Instrument
JD29690-12.1.1	Brandon Loch	Extract Freezer	08/13/21 10:16	Return to Storage
JD29690-12.1.2	Chatiyah Canaday	Organics Prep	08/11/21 08:29	Extract from JD29690-12.1
JD29690-12.1.2	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-12.1
JD29690-12.1.2	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-12.1.2	Extract Storage	Taylor Cavanaugh	08/11/21 18:12	Retrieve from Storage
JD29690-12.1.2	Taylor Cavanaugh	GCRK	08/11/21 18:12	Load on Instrument
JD29690-12.1.3	Chatiyah Canaday	Organics Prep	08/11/21 08:32	Extract from JD29690-12.1
JD29690-12.1.3	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-12.1

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-12.1.3	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-12.1.3	Extract Storage	Christine Phillips	08/11/21 23:28	Retrieve from Storage
JD29690-12.1.3	Christine Phillips	GC6G	08/11/21 23:28	Load on Instrument
JD29690-12.1.4	Alyssa Koshy	Metals Digestion	08/13/21 11:31	Digestate from JD29690-12.1
JD29690-12.1.4	Metals Digestion	Alyssa Koshy	08/13/21 11:32	Digestate from JD29690-12.1
JD29690-12.1.4	Alyssa Koshy	Metals Digestate Storage	08/13/21 11:32	Return to Storage
JD29690-12.1.5	Chatiyah Canaday	Organics Prep	08/17/21 08:01	Extract from JD29690-12.1
JD29690-12.2	Secured Storage	Jayna Patel	08/11/21 09:13	Retrieve from Storage
JD29690-12.2	Jayna Patel	Secured Storage	08/11/21 09:13	Return to Storage
JD29690-12.4	Secured Storage	Prashant Shukla	08/12/21 16:01	Retrieve from Storage
JD29690-12.4	Prashant Shukla	GCMS3C	08/12/21 16:01	Load on Instrument
JD29690-12.4	GCMS3C	Prashant Shukla	08/14/21 12:59	Unload from Instrument
JD29690-12.4	Prashant Shukla		08/14/21 13:00	Depleted
JD29690-13.2	Secured Storage	Jayna Patel	08/11/21 09:13	Retrieve from Storage
JD29690-13.2	Jayna Patel	Secured Storage	08/11/21 09:13	Return to Storage
JD29690-14.1	Secured Storage	Todd Shoemaker	08/11/21 08:00	Retrieve from Storage
JD29690-14.1	Todd Shoemaker	Secured Staging Area	08/11/21 08:01	Return to Storage
JD29690-14.1	Secured Staging Area	Chatiyah Canaday	08/11/21 08:05	Retrieve from Storage
JD29690-14.1	Chatiyah Canaday	Rachel Koshy	08/11/21 12:16	Custody Transfer
JD29690-14.1	Secured Storage	Todd Shoemaker	08/12/21 13:58	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29690-14.1	Todd Shoemaker	Secured Staging Area	08/12/21 13:59	Return to Storage
JD29690-14.1	Secured Staging Area	Lauren Matthews	08/12/21 14:01	Retrieve from Storage
JD29690-14.1	Lauren Matthews	Secured Storage	08/13/21 10:16	Return to Storage
JD29690-14.1	Secured Storage	Alyssa Koshy	08/13/21 11:30	Retrieve from Storage
JD29690-14.1	Alyssa Koshy	Secured Storage	08/13/21 11:34	Return to Storage
JD29690-14.1	Secured Storage	Todd Shoemaker	08/17/21 07:43	Retrieve from Storage
JD29690-14.1	Todd Shoemaker	Secured Staging Area	08/17/21 07:43	Return to Storage
JD29690-14.1	Secured Staging Area	Chatiyah Canaday	08/17/21 07:46	Retrieve from Storage
JD29690-14.1	Chatiyah Canaday	Secured Storage	08/17/21 13:13	Return to Storage
JD29690-14.1.1	Chatiyah Canaday	Organics Prep	08/11/21 08:16	Extract from JD29690-14.1
JD29690-14.1.1	Organics Prep	Jack Hennigan	08/11/21 23:00	Extract from JD29690-14.1
JD29690-14.1.1	Jack Hennigan	Extract Storage	08/11/21 23:00	Return to Storage
JD29690-14.1.1	Extract Storage	Christopher Sowa	08/12/21 02:17	Retrieve from Storage
JD29690-14.1.1	Christopher Sowa	GCMSZ	08/12/21 02:17	Load on Instrument
JD29690-14.1.1	GCMSZ	Brandon Loch	08/13/21 10:16	Unload from Instrument
JD29690-14.1.1	Brandon Loch	Extract Freezer	08/13/21 10:16	Return to Storage

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-14.1.2	Chatiyah Canaday	Organics Prep	08/11/21 08:29	Extract from JD29690-14.1
JD29690-14.1.2	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-14.1
JD29690-14.1.2	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-14.1.2	Extract Storage	Taylor Cavanaugh	08/11/21 18:12	Retrieve from Storage
JD29690-14.1.2	Taylor Cavanaugh	GCRK	08/11/21 18:12	Load on Instrument
JD29690-14.1.3	Chatiyah Canaday	Organics Prep	08/11/21 08:32	Extract from JD29690-14.1
JD29690-14.1.3	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-14.1
JD29690-14.1.3	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-14.1.3	Extract Storage	Christine Phillips	08/11/21 23:28	Retrieve from Storage
JD29690-14.1.3	Christine Phillips	GC6G	08/11/21 23:28	Load on Instrument
JD29690-14.1.4	Alyssa Koshy	Metals Digestion	08/13/21 11:31	Digestate from JD29690-14.1
JD29690-14.1.4	Metals Digestion	Alyssa Koshy	08/13/21 11:32	Digestate from JD29690-14.1
JD29690-14.1.4	Alyssa Koshy	Metals Digestate Storage	08/13/21 11:32	Return to Storage
JD29690-14.1.5	Chatiyah Canaday	Organics Prep	08/17/21 08:01	Extract from JD29690-14.1
JD29690-14.2	Secured Storage	Jayna Patel	08/11/21 09:13	Retrieve from Storage
JD29690-14.2	Jayna Patel	Secured Storage	08/11/21 09:13	Return to Storage
JD29690-14.4	Secured Storage	Prashant Shukla	08/12/21 16:01	Retrieve from Storage
JD29690-14.4	Prashant Shukla	GCMS3C	08/12/21 16:01	Load on Instrument
JD29690-14.4	GCMS3C	Prashant Shukla	08/14/21 12:59	Unload from Instrument
JD29690-14.4	Prashant Shukla		08/14/21 13:00	Depleted
JD29690-15.1	Secured Storage	Todd Shoemaker	08/11/21 08:00	Retrieve from Storage
JD29690-15.1	Todd Shoemaker	Secured Staging Area	08/11/21 08:01	Return to Storage
JD29690-15.1	Secured Staging Area	Chatiyah Canaday	08/11/21 08:05	Retrieve from Storage
JD29690-15.1	Chatiyah Canaday	Rachel Koshy	08/11/21 12:16	Custody Transfer
JD29690-15.1	Secured Storage	Todd Shoemaker	08/12/21 13:58	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29690-15.1	Todd Shoemaker	Secured Staging Area	08/12/21 13:59	Return to Storage
JD29690-15.1	Secured Staging Area	Lauren Matthews	08/12/21 14:01	Retrieve from Storage
JD29690-15.1	Lauren Matthews	Secured Storage	08/13/21 10:16	Return to Storage
JD29690-15.1	Secured Storage	Alyssa Koshy	08/13/21 11:30	Retrieve from Storage
JD29690-15.1	Alyssa Koshy	Secured Storage	08/13/21 11:34	Return to Storage
JD29690-15.1.1	Chatiyah Canaday	Organics Prep	08/11/21 08:16	Extract from JD29690-15.1
JD29690-15.1.1	Organics Prep	Jack Hennigan	08/11/21 23:00	Extract from JD29690-15.1
JD29690-15.1.1	Jack Hennigan	Extract Storage	08/11/21 23:00	Return to Storage
JD29690-15.1.1	Extract Storage	Christopher Sowa	08/12/21 02:17	Retrieve from Storage
JD29690-15.1.1	Christopher Sowa	GCMSZ	08/12/21 02:17	Load on Instrument

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-15.1.1	GCMSZ	Brandon Loch	08/13/21 10:16	Unload from Instrument
JD29690-15.1.1	Brandon Loch	Extract Freezer	08/13/21 10:16	Return to Storage
JD29690-15.1.2	Chatiyah Canaday	Organics Prep	08/11/21 08:29	Extract from JD29690-15.1
JD29690-15.1.2	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-15.1
JD29690-15.1.2	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-15.1.2	Extract Storage	Taylor Cavanaugh	08/11/21 18:12	Retrieve from Storage
JD29690-15.1.2	Taylor Cavanaugh	GCRK	08/11/21 18:12	Load on Instrument
JD29690-15.1.3	Chatiyah Canaday	Organics Prep	08/11/21 08:32	Extract from JD29690-15.1
JD29690-15.1.3	Organics Prep	Kyle McKeon	08/11/21 17:15	Extract from JD29690-15.1
JD29690-15.1.3	Kyle McKeon	Extract Storage	08/11/21 17:15	Return to Storage
JD29690-15.1.3	Extract Storage	Christine Phillips	08/11/21 23:28	Retrieve from Storage
JD29690-15.1.3	Christine Phillips	GC6G	08/11/21 23:28	Load on Instrument
JD29690-15.1.4	Alyssa Koshy	Metals Digestion	08/13/21 11:31	Digestate from JD29690-15.1
JD29690-15.1.4	Metals Digestion	Alyssa Koshy	08/13/21 11:32	Digestate from JD29690-15.1
JD29690-15.1.4	Alyssa Koshy	Metals Digestate Storage	08/13/21 11:32	Return to Storage
JD29690-15.2	Secured Storage	Jayna Patel	08/11/21 09:13	Retrieve from Storage
JD29690-15.2	Jayna Patel	Secured Storage	08/11/21 09:13	Return to Storage
JD29690-15.4	Secured Storage	Prashant Shukla	08/12/21 16:01	Retrieve from Storage
JD29690-15.4	Prashant Shukla	GCMS3C	08/12/21 16:01	Load on Instrument
JD29690-15.4	GCMS3C	Prashant Shukla	08/14/21 12:59	Unload from Instrument
JD29690-15.4	Prashant Shukla		08/14/21 13:00	Depleted
JD29690-16.2	Secured Storage	Jayna Patel	08/11/21 09:13	Retrieve from Storage
JD29690-16.2	Jayna Patel	Secured Storage	08/11/21 09:13	Return to Storage
JD29690-17.1	Tyler Strong	Secured Storage	08/11/21 00:02	Return to Storage
JD29690-17.1	Secured Storage	Todd Shoemaker	08/11/21 13:53	Retrieve from Storage
JD29690-17.1	Todd Shoemaker	Secured Staging Area	08/11/21 13:53	Return to Storage
JD29690-17.1	Secured Staging Area	Elizabeth Wynbs	08/11/21 15:18	Retrieve from Storage
JD29690-17.1	Elizabeth Wynbs		08/11/21 22:03	Depleted
JD29690-17.1.1	Elizabeth Wynbs	Organics Prep	08/11/21 15:28	Extract from JD29690-17.1
JD29690-17.1.1	Organics Prep	Jesse Li	08/11/21 21:58	Extract from JD29690-17.1
JD29690-17.1.1	Jesse Li	Extract Storage	08/11/21 21:58	Return to Storage
JD29690-17.1.1	Extract Storage	Christopher Sowa	08/13/21 01:48	Retrieve from Storage
JD29690-17.1.1	Christopher Sowa	GCMSF	08/13/21 01:48	Load on Instrument
JD29690-17.1.1	GCMSF	Kristi Schollenberger	08/13/21 14:04	Unload from Instrument
JD29690-17.1.1	Kristi Schollenberger	Extract Freezer	08/13/21 14:04	Return to Storage

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-17.2	Tyler Strong	Secured Storage	08/11/21 00:02	Return to Storage
JD29690-17.2	Tyler Strong	Secured Staging Area	08/12/21 02:29	Return to Storage
stage				
JD29690-17.2	Secured Staging Area	Naisha Torres	08/12/21 08:55	Retrieve from Storage
JD29690-17.2	Naisha Torres		08/12/21 12:43	Depleted
JD29690-17.2.1	Naisha Torres	Organics Prep	08/12/21 09:11	Extract from JD29690-17.2
JD29690-17.2.1	Organics Prep	Naisha Torres	08/12/21 09:49	Extract from JD29690-17.2
JD29690-17.2.1	Naisha Torres		08/12/21 12:43	Depleted
JD29690-17.2.2	Naisha Torres	Organics Prep	08/12/21 09:11	Extract from JD29690-17.2
JD29690-17.2.3	Naisha Torres	Organics Prep	08/12/21 09:50	Extract from JD29690-17.2
JD29690-17.2.3	Organics Prep	Nicholas Weigand	08/12/21 16:32	Extract from JD29690-17.2
JD29690-17.2.3	Nicholas Weigand	Extract Storage	08/12/21 16:32	Return to Storage
JD29690-17.2.3	Taylor Cavanaugh	GC1G	08/12/21 17:14	Load on Instrument
JD29690-17.2.3	Extract Storage	Taylor Cavanaugh	08/12/21 17:14	Retrieve from Storage
JD29690-17.2.4	Naisha Torres	Organics Prep	08/12/21 09:50	Extract from JD29690-17.2
JD29690-17.2.4	Organics Prep	Nicholas Weigand	08/12/21 16:32	Extract from JD29690-17.2
JD29690-17.2.4	Nicholas Weigand	Extract Storage	08/12/21 16:32	Return to Storage
JD29690-17.2.4	Extract Storage	Rebecca Krug	08/12/21 22:46	Retrieve from Storage
JD29690-17.2.4	Rebecca Krug	GCXX	08/12/21 22:46	Load on Instrument
JD29690-17.3	Tyler Strong	Secured Storage	08/11/21 00:02	Return to Storage
JD29690-17.4	Tyler Strong	Secured Storage	08/11/21 00:02	Return to Storage
JD29690-17.5	Tyler Strong	Secured Storage	08/11/21 00:41	Return to Storage
JD29690-17.5	Secured Storage	Benjamin Gaines	08/11/21 15:32	Retrieve from Storage
JD29690-17.5	Benjamin Gaines	Secured Staging Area	08/11/21 15:32	Return to Storage
JD29690-17.5	Secured Staging Area	Alyssa Koshy	08/12/21 08:19	Retrieve from Storage
JD29690-17.5	Alyssa Koshy	Secured Storage	08/12/21 12:12	Return to Storage
JD29690-17.5	Secured Storage	Todd Shoemaker	08/13/21 12:14	Retrieve from Storage
JD29690-17.5	Todd Shoemaker	Secured Staging Area	08/13/21 12:14	Return to Storage
JD29690-17.5	Secured Staging Area	Lauren Matthews	08/13/21 12:54	Retrieve from Storage
JD29690-17.5	Lauren Matthews	Secured Storage	08/13/21 15:53	Return to Storage
JD29690-17.5.1	Alyssa Koshy	Metals Digestion	08/12/21 09:52	Digestate from JD29690-17.5
JD29690-17.5.1	Metals Digestion	Alyssa Koshy	08/12/21 09:52	Digestate from JD29690-17.5
JD29690-17.5.1	Alyssa Koshy	Metals Digestate Storage	08/12/21 09:52	Return to Storage
JD29690-17.7	Tyler Strong	Secured Storage	08/11/21 00:49	Return to Storage
JD29690-17.7	Tyler Strong		08/12/21 16:58	Subcontract

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
sub				
JD29690-17.8	Tyler Strong	Secured Storage	08/11/21 00:43	Return to Storage
JD29690-17.8	Secured Storage	Dave Hunkele	08/11/21 08:51	Retrieve from Storage
JD29690-17.8	Dave Hunkele	Secured Staging Area	08/11/21 08:52	Return to Storage
JD29690-17.8	Secured Staging Area	Bianca Asaro	08/11/21 09:45	Retrieve from Storage
JD29690-17.8	Bianca Asaro	Secured Storage	08/11/21 18:26	Return to Storage
JD29690-17F.6	Tyler Strong	Secured Storage	08/11/21 00:43	Return to Storage
JD29690-17F.6	Secured Storage	Todd Shoemaker	08/11/21 10:14	Retrieve from Storage
JD29690-17F.6	Todd Shoemaker	Secured Staging Area	08/11/21 10:14	Return to Storage
JD29690-17F.6	Secured Storage	Benjamin Gaines	08/11/21 15:32	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29690-17F.6	Benjamin Gaines	Secured Staging Area	08/11/21 15:32	Return to Storage
JD29690-17F.6	Secured Staging Area	Alyssa Koshy	08/12/21 08:19	Retrieve from Storage
JD29690-17F.6	Alyssa Koshy	Secured Storage	08/12/21 12:12	Return to Storage
JD29690-17F.6	Secured Storage	Todd Shoemaker	08/13/21 12:14	Retrieve from Storage
JD29690-17F.6	Todd Shoemaker	Secured Staging Area	08/13/21 12:14	Return to Storage
JD29690-17F.6	Secured Staging Area	Lauren Matthews	08/13/21 12:54	Retrieve from Storage
JD29690-17F.6	Lauren Matthews	Secured Storage	08/13/21 15:53	Return to Storage
JD29690-17F.6.1	Alyssa Koshy	Metals Digestion	08/12/21 09:52	Digestate from JD29690-17F.6
JD29690-17F.6.1	Metals Digestion	Alyssa Koshy	08/12/21 09:52	Digestate from JD29690-17F.6
JD29690-17F.6.1	Alyssa Koshy	Metals Digestate Storage	08/12/21 09:52	Return to Storage
JD29690-18.1	Tyler Strong	Secured Storage	08/11/21 00:02	Return to Storage
JD29690-18.2	Tyler Strong	Secured Storage	08/11/21 00:02	Return to Storage
JD29690-18.2	Secured Storage	Todd Shoemaker	08/11/21 13:53	Retrieve from Storage
JD29690-18.2	Todd Shoemaker	Secured Staging Area	08/11/21 13:53	Return to Storage
JD29690-18.2	Secured Staging Area	Elizabeth Wynbs	08/11/21 15:18	Retrieve from Storage
JD29690-18.2	Elizabeth Wynbs		08/11/21 22:03	Depleted
JD29690-18.2.1	Elizabeth Wynbs	Organics Prep	08/11/21 15:28	Extract from JD29690-18.2
JD29690-18.2.1	Organics Prep	Jesse Li	08/11/21 21:58	Extract from JD29690-18.2
JD29690-18.2.1	Jesse Li	Extract Storage	08/11/21 21:58	Return to Storage
JD29690-18.2.1	Extract Storage	Christopher Sowa	08/13/21 01:48	Retrieve from Storage
JD29690-18.2.1	Christopher Sowa	GCMSF	08/13/21 01:48	Load on Instrument
JD29690-18.2.1	GCMSF	Kristi Schollenberger	08/13/21 14:04	Unload from Instrument
JD29690-18.2.1	Kristi Schollenberger	Extract Freezer	08/13/21 14:04	Return to Storage
JD29690-18.3	Tyler Strong	Secured Storage	08/11/21 00:02	Return to Storage
JD29690-18.3	Tyler Strong	Secured Staging Area	08/12/21 02:29	Return to Storage
stage				

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-18.3	Secured Staging Area	Naisha Torres	08/12/21 08:55	Retrieve from Storage
JD29690-18.3	Naisha Torres		08/12/21 12:43	Depleted
JD29690-18.3.1	Naisha Torres	Organics Prep	08/12/21 09:11	Extract from JD29690-18.3
JD29690-18.3.1	Organics Prep	Naisha Torres	08/12/21 09:49	Extract from JD29690-18.3
JD29690-18.3.1	Naisha Torres		08/12/21 12:43	Depleted
JD29690-18.3.2	Naisha Torres	Organics Prep	08/12/21 09:11	Extract from JD29690-18.3
JD29690-18.3.3	Naisha Torres	Organics Prep	08/12/21 09:50	Extract from JD29690-18.3
JD29690-18.3.3	Organics Prep	Nicholas Weigand	08/12/21 16:32	Extract from JD29690-18.3
JD29690-18.3.3	Nicholas Weigand	Extract Storage	08/12/21 16:32	Return to Storage
JD29690-18.3.3	Extract Storage	Taylor Cavanaugh	08/12/21 17:14	Retrieve from Storage
JD29690-18.3.3	Taylor Cavanaugh	GC1G	08/12/21 17:14	Load on Instrument
JD29690-18.3.4	Naisha Torres	Organics Prep	08/12/21 09:50	Extract from JD29690-18.3
JD29690-18.3.4	Organics Prep	Nicholas Weigand	08/12/21 16:32	Extract from JD29690-18.3
JD29690-18.3.4	Nicholas Weigand	Extract Storage	08/12/21 16:32	Return to Storage
JD29690-18.3.4	Extract Storage	Rebecca Krug	08/12/21 22:46	Retrieve from Storage
JD29690-18.3.4	Rebecca Krug	GCXX	08/12/21 22:46	Load on Instrument
JD29690-18.4	Tyler Strong	Secured Storage	08/11/21 00:02	Return to Storage
JD29690-18.5	Tyler Strong	Secured Storage	08/11/21 00:41	Return to Storage
JD29690-18.5	Secured Storage	Benjamin Gaines	08/11/21 15:32	Retrieve from Storage
JD29690-18.5	Benjamin Gaines	Secured Staging Area	08/11/21 15:32	Return to Storage
JD29690-18.5	Secured Staging Area	Alyssa Koshy	08/12/21 08:19	Retrieve from Storage
JD29690-18.5	Alyssa Koshy	Secured Storage	08/12/21 12:12	Return to Storage
JD29690-18.5	Secured Storage	Todd Shoemaker	08/13/21 12:14	Retrieve from Storage
JD29690-18.5	Todd Shoemaker	Secured Staging Area	08/13/21 12:14	Return to Storage
JD29690-18.5	Secured Staging Area	Lauren Matthews	08/13/21 12:54	Retrieve from Storage
JD29690-18.5	Lauren Matthews	Secured Storage	08/13/21 15:53	Return to Storage
JD29690-18.5.1	Alyssa Koshy	Metals Digestion	08/12/21 09:52	Digestate from JD29690-18.5
JD29690-18.5.1	Metals Digestion	Alyssa Koshy	08/12/21 09:52	Digestate from JD29690-18.5
JD29690-18.5.1	Alyssa Koshy	Metals Digestate Storage	08/12/21 09:52	Return to Storage
JD29690-18.7	Tyler Strong	Secured Storage	08/11/21 00:49	Return to Storage
JD29690-18.7 sub	Tyler Strong		08/12/21 16:58	Subcontract
JD29690-18.8	Tyler Strong	Secured Storage	08/11/21 00:43	Return to Storage
JD29690-18.8	Secured Storage	Dave Hunkele	08/11/21 08:51	Retrieve from Storage
JD29690-18.8	Dave Hunkele	Secured Staging Area	08/11/21 08:52	Return to Storage

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-18.8	Secured Staging Area	Bianca Asaro	08/11/21 09:45	Retrieve from Storage
JD29690-18.8	Bianca Asaro	Secured Storage	08/11/21 18:26	Return to Storage
JD29690-18F.6	Tyler Strong	Secured Storage	08/11/21 00:43	Return to Storage
JD29690-18F.6	Secured Storage	Todd Shoemaker	08/11/21 10:14	Retrieve from Storage
JD29690-18F.6	Todd Shoemaker	Secured Staging Area	08/11/21 10:14	Return to Storage
JD29690-18F.6	Secured Storage	Benjamin Gaines	08/11/21 15:32	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29690-18F.6	Benjamin Gaines	Secured Staging Area	08/11/21 15:32	Return to Storage
JD29690-18F.6	Secured Staging Area	Alyssa Koshy	08/12/21 08:19	Retrieve from Storage
JD29690-18F.6	Alyssa Koshy	Secured Storage	08/12/21 12:12	Return to Storage
JD29690-18F.6	Secured Storage	Todd Shoemaker	08/13/21 12:14	Retrieve from Storage
JD29690-18F.6	Todd Shoemaker	Secured Staging Area	08/13/21 12:14	Return to Storage
JD29690-18F.6	Secured Staging Area	Lauren Matthews	08/13/21 12:54	Retrieve from Storage
JD29690-18F.6	Lauren Matthews	Secured Storage	08/13/21 15:53	Return to Storage
JD29690-18F.6.1	Alyssa Koshy	Metals Digestion	08/12/21 09:52	Digestate from JD29690-18F.6
JD29690-18F.6.1	Metals Digestion	Alyssa Koshy	08/12/21 09:52	Digestate from JD29690-18F.6
JD29690-18F.6.1	Alyssa Koshy	Metals Digestate Storage	08/12/21 09:52	Return to Storage
JD29690-19.1	Tyler Strong	Secured Storage	08/11/21 00:02	Return to Storage
JD29690-19.1	Tyler Strong	Secured Staging Area	08/12/21 02:29	Return to Storage
stage				
JD29690-19.1	Secured Staging Area	Naisha Torres	08/12/21 08:55	Retrieve from Storage
JD29690-19.1	Naisha Torres		08/12/21 12:43	Depleted
JD29690-19.1.1	Naisha Torres	Organics Prep	08/12/21 09:11	Extract from JD29690-19.1
JD29690-19.1.1	Organics Prep	Naisha Torres	08/12/21 09:49	Extract from JD29690-19.1
JD29690-19.1.1	Naisha Torres		08/12/21 12:43	Depleted
JD29690-19.1.2	Naisha Torres	Organics Prep	08/12/21 09:11	Extract from JD29690-19.1
JD29690-19.1.3	Naisha Torres	Organics Prep	08/12/21 09:50	Extract from JD29690-19.1
JD29690-19.1.3	Organics Prep	Nicholas Weigand	08/12/21 16:32	Extract from JD29690-19.1
JD29690-19.1.3	Nicholas Weigand	Extract Storage	08/12/21 16:32	Return to Storage
JD29690-19.1.3	Taylor Cavanaugh	GC1G	08/12/21 17:14	Load on Instrument
JD29690-19.1.3	Extract Storage	Taylor Cavanaugh	08/12/21 17:14	Retrieve from Storage
JD29690-19.1.4	Naisha Torres	Organics Prep	08/12/21 09:50	Extract from JD29690-19.1
JD29690-19.1.4	Organics Prep	Nicholas Weigand	08/12/21 16:32	Extract from JD29690-19.1
JD29690-19.1.4	Nicholas Weigand	Extract Storage	08/12/21 16:32	Return to Storage
JD29690-19.1.4	Extract Storage	Rebecca Krug	08/12/21 22:46	Retrieve from Storage
JD29690-19.1.4	Rebecca Krug	GCXX	08/12/21 22:46	Load on Instrument

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-19.2	Tyler Strong	Secured Storage	08/11/21 00:02	Return to Storage
JD29690-19.3	Tyler Strong	Secured Storage	08/11/21 00:02	Return to Storage
JD29690-19.3	Secured Storage	Todd Shoemaker	08/11/21 13:53	Retrieve from Storage
JD29690-19.3	Todd Shoemaker	Secured Staging Area	08/11/21 13:53	Return to Storage
JD29690-19.3	Secured Staging Area	Elizabeth Wynbs	08/11/21 15:18	Retrieve from Storage
JD29690-19.3	Elizabeth Wynbs		08/11/21 22:03	Depleted
JD29690-19.3.1	Elizabeth Wynbs	Organics Prep	08/11/21 15:28	Extract from JD29690-19.3
JD29690-19.3.1	Organics Prep	Jesse Li	08/11/21 21:58	Extract from JD29690-19.3
JD29690-19.3.1	Jesse Li	Extract Storage	08/11/21 21:58	Return to Storage
JD29690-19.3.1	Extract Storage	Christopher Sowa	08/13/21 01:48	Retrieve from Storage
JD29690-19.3.1	Christopher Sowa	GCMSF	08/13/21 01:48	Load on Instrument
JD29690-19.3.1	GCMSF	Kristi Schollenberger	08/13/21 14:04	Unload from Instrument
JD29690-19.3.1	Kristi Schollenberger	Extract Freezer	08/13/21 14:04	Return to Storage
JD29690-19.4	Tyler Strong	Secured Storage	08/11/21 00:02	Return to Storage
JD29690-19.5	Tyler Strong	Secured Storage	08/11/21 00:41	Return to Storage
JD29690-19.5	Secured Storage	Benjamin Gaines	08/11/21 15:32	Retrieve from Storage
JD29690-19.5	Benjamin Gaines	Secured Staging Area	08/11/21 15:32	Return to Storage
JD29690-19.5	Secured Staging Area	Alyssa Koshy	08/12/21 08:19	Retrieve from Storage
JD29690-19.5	Alyssa Koshy	Secured Storage	08/13/21 11:34	Return to Storage
JD29690-19.5	Secured Storage	Todd Shoemaker	08/13/21 12:14	Retrieve from Storage
JD29690-19.5	Todd Shoemaker	Secured Staging Area	08/13/21 12:14	Return to Storage
JD29690-19.5	Secured Staging Area	Lauren Matthews	08/13/21 12:54	Retrieve from Storage
JD29690-19.5	Lauren Matthews	Secured Storage	08/13/21 15:53	Return to Storage
JD29690-19.5	Secured Storage	Benjamin Gaines	08/15/21 09:58	Retrieve from Storage
JD29690-19.5	Benjamin Gaines	Secured Staging Area	08/15/21 09:58	Return to Storage
JD29690-19.5	Secured Staging Area	Alyssa Koshy	08/16/21 08:19	Retrieve from Storage
JD29690-19.5	Alyssa Koshy	Secured Storage	08/16/21 10:28	Return to Storage
JD29690-19.5.1	Alyssa Koshy	Metals Digestion	08/16/21 10:09	Digestate from JD29690-19.5
JD29690-19.5.1	Metals Digestion	Alyssa Koshy	08/16/21 10:09	Digestate from JD29690-19.5
JD29690-19.5.1	Alyssa Koshy	Metals Digestate Storage	08/16/21 10:09	Return to Storage
JD29690-19.7	Tyler Strong	Secured Storage	08/11/21 00:49	Return to Storage
JD29690-19.7 sub	Tyler Strong		08/12/21 16:58	Subcontract
JD29690-19.8	Tyler Strong	Secured Storage	08/11/21 00:43	Return to Storage
JD29690-19.8	Secured Storage	Dave Hunkele	08/11/21 08:51	Retrieve from Storage
JD29690-19.8	Dave Hunkele	Secured Staging Area	08/11/21 08:52	Return to Storage
JD29690-19.8	Secured Staging Area	Bianca Asaro	08/11/21 09:45	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD29690
Account: HKEGNJU HK Engineering & Geology, DPC
Project: HK2550, NY
Received: 08/10/21

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD29690-19.8	Bianca Asaro	Secured Storage	08/11/21 18:26	Return to Storage
JD29690-19F.6	Tyler Strong	Secured Storage	08/11/21 00:43	Return to Storage
JD29690-19F.6	Secured Storage	Todd Shoemaker	08/11/21 10:14	Retrieve from Storage
JD29690-19F.6	Todd Shoemaker	Secured Staging Area	08/11/21 10:14	Return to Storage
JD29690-19F.6	Secured Storage	Benjamin Gaines	08/11/21 15:32	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD29690-19F.6	Benjamin Gaines	Secured Staging Area	08/11/21 15:32	Return to Storage
JD29690-19F.6	Secured Staging Area	Alyssa Koshy	08/12/21 08:19	Retrieve from Storage
JD29690-19F.6	Alyssa Koshy	Secured Storage	08/12/21 12:12	Return to Storage
JD29690-19F.6	Secured Storage	Todd Shoemaker	08/13/21 12:14	Retrieve from Storage
JD29690-19F.6	Todd Shoemaker	Secured Staging Area	08/13/21 12:14	Return to Storage
JD29690-19F.6	Secured Staging Area	Lauren Matthews	08/13/21 12:54	Retrieve from Storage
JD29690-19F.6	Lauren Matthews	Secured Storage	08/13/21 15:53	Return to Storage
JD29690-19F.6	Secured Storage	Benjamin Gaines	08/15/21 09:58	Retrieve from Storage
JD29690-19F.6	Benjamin Gaines	Secured Staging Area	08/15/21 09:58	Return to Storage
JD29690-19F.6	Secured Staging Area	Alyssa Koshy	08/16/21 08:19	Retrieve from Storage
JD29690-19F.6	Alyssa Koshy	Secured Storage	08/16/21 10:28	Return to Storage
JD29690-19F.6.1	Alyssa Koshy	Metals Digestion	08/16/21 10:09	Digestate from JD29690-19F.6
JD29690-19F.6.1	Metals Digestion	Alyssa Koshy	08/16/21 10:09	Digestate from JD29690-19F.6
JD29690-19F.6.1	Alyssa Koshy	Metals Digestate Storage	08/16/21 10:09	Return to Storage
JD29690-20.1	Tyler Strong	Secured Storage	08/11/21 00:49	Return to Storage
JD29690-20.1	Tyler Strong		08/12/21 16:58	Subcontract
sub				
JD29690-20.2	Tyler Strong	Secured Storage	08/11/21 00:49	Return to Storage
JD29690-20.2	Tyler Strong		08/12/21 16:58	Subcontract
sub				

Misc. Forms

Custody Documents and Other Forms

(SGS Orlando, FL)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle

SGS

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JD29690

Client / Reporting Information	Project Information	Billing Information (If different from Report to)
Company Name: SGS North America Inc.	Project Name: HK2550, NY	
Street Address: 2235 Route 130	Street:	Company Name:
City: Dayton State: NJ Zip: 08810	City: State:	Street Address:
Project Contact: michelle.jenkins@sgs.com E-mail:	Project #:	City: State: Zip:
Phone #: 732-329-0200 Fax #:	Client Purchase Order #:	Attention:
Sampler(s) Name(s): RP Phone:	Project Manager:	

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LOID537NY21 -	LAB USE ONLY
2	S1B (2-4)		8/9/21	9:30:00 AM	RP	SO										X	
4	S2B (2-4)		8/9/21	10:40:00 AM	RP	SO										X	
17	TWP1		8/9/21	10:20:00 AM	RP	AQ										X	
18	TWP3		8/9/21	11:35:00 AM	RP	AQ										X	
19	TWP5		8/9/21	1:15:00 PM	RP	AQ										X	
20	PFAS-BLANK		8/9/21	3:50:00 PM	RP	AQ										X	

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other 7

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other NYASPA

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASSESSMENT

LABEL VERIFICATION PA

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		8/12/21 10:00	1 FEDEX	2 FEDEX	8/13/21 9:30	2
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact	Preserved where applicable / On Ice / Cooler Temp.

JD29690: Chain of Custody
Page 1 of 2
SGS Orlando, FL

SGS Sample Receipt Summary

Job Number: JD29690 **Client:** DAYTON **Project:** HK2550, NY

Date / Time Received: 8/13/2021 9:30:00 AM **Delivery Method:** FED EX **Airbill #'s:** 9251 0905 3951

Therm ID: IR 1; **Therm CF:** 0.2; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (1.8);

Cooler Temps (Corrected) °C: Cooler 1: (2.0);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☐	☑
2. Trip Blank listed on COC	☐		☐	☑

	W	or	S	N/A
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☐	☑
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments

SM001
Rev. Date 05/24/17

Technician: CARLOSD Date: 8/13/2021 9:30:00 AM Reviewer: _____ Date: _____

Internal Sample Tracking Chronicle

SGS Dayton, NJ

Job No: JD29690

HKEGNJU: HK2550, NY
Project No: PO#HK-2550-1

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29690-2	Collected: 09-AUG-21 09:30 By: RP			Received: 10-AUG-21	By:	
S1B (2-4)						
JD29690-2	EPA 537M BY ID	17-AUG-21 15:12	MV	17-AUG-21	MV	LCID537NY21
JD29690-4	Collected: 09-AUG-21 10:40 By: RP			Received: 10-AUG-21	By:	
S2B (2-4)						
JD29690-4	EPA 537M BY ID	17-AUG-21 15:29	MV	17-AUG-21	MV	LCID537NY21
JD29690-17	Collected: 09-AUG-21 10:20 By: RP			Received: 10-AUG-21	By:	
TWP1						
JD29690-17	EPA 537M BY ID	17-AUG-21 14:49	NAF	16-AUG-21	GH	LCID537NY21
JD29690-17	EPA 537M BY ID	18-AUG-21 10:02	NAF	16-AUG-21	GH	LCID537NY21
JD29690-17	EPA 537M BY ID	18-AUG-21 10:23	NAF	16-AUG-21	GH	LCID537NY21
JD29690-18	Collected: 09-AUG-21 11:35 By: RP			Received: 10-AUG-21	By:	
TWP3						
JD29690-18	EPA 537M BY ID	17-AUG-21 15:05	NAF	16-AUG-21	GH	LCID537NY21
JD29690-18	EPA 537M BY ID	18-AUG-21 10:39	NAF	16-AUG-21	GH	LCID537NY21
JD29690-18	EPA 537M BY ID	18-AUG-21 10:55	NAF	16-AUG-21	GH	LCID537NY21
JD29690-19	Collected: 09-AUG-21 13:15 By: RP			Received: 10-AUG-21	By:	
TWP5						
JD29690-19	EPA 537M BY ID	17-AUG-21 15:21	NAF	16-AUG-21	GH	LCID537NY21
JD29690-19	EPA 537M BY ID	18-AUG-21 11:11	NAF	16-AUG-21	GH	LCID537NY21
JD29690-19	EPA 537M BY ID	18-AUG-21 11:27	NAF	16-AUG-21	GH	LCID537NY21
JD29690-20	Collected: 09-AUG-21 15:50 By: RP			Received: 10-AUG-21	By:	
PFAS-BLANK						
JD29690-20	EPA 537M BY ID	17-AUG-21 15:37	NAF	16-AUG-21	GH	LCID537NY21