

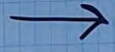


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Attachment C

Hyde Park Sediment Cores

Laboratory Results



301 Fulling Mill Road | Middletown, PA 17057 | Phone: 717-944-5541 | Fax: 717-944-1430 | www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: PJLA 74618
State Certifications: FL E871113 , WA C999 , MD 128 , VA 460157 , WV DW 9961-C , WV 343

Analytical Results Report For

Normandeu Associates Inc.-Stowe

Project 2022-2022-12-003 CHPE Hudson 7
Workorder 3265649
Report ID 206665 on 11/11/2022

Certificate of Analysis

Enclosed are the analytical results for samples received by the laboratory on Sep 27, 2022.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Sarah Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Middletown: 301 Fulling Mill Road, Middletown, PA 17057 : 717-944-5541.

Recipient(s):

Don Nazario - Normandeu Associates, Inc.-Stowe
Michael Mettler - Normandeu Associates, Inc.

Sarah Leung

Sarah Leung
Project Coordinator

(ALS Digital Signature)

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Sample Summary

<u>Lab ID</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>	<u>Collector</u>	<u>Collection Company</u>
3265649001	Hyde Park 1A	Solid	09/25/2022 12:30	09/27/2022 09:04	CBC	Collected By Client
3265649002	Hyde Park 1B	Solid	09/25/2022 12:40	09/27/2022 09:04	CBC	Collected By Client
3265649003	Hyde Park 2A	Solid	09/25/2022 11:40	09/27/2022 09:04	CBC	Collected By Client
3265649004	Hyde Park 2B	Solid	09/25/2022 11:45	09/27/2022 09:04	CBC	Collected By Client
3265649005	Hyde Park 3A	Solid	09/25/2022 09:55	09/27/2022 09:04	CBC	Collected By Client
3265649006	Hyde Park 3B	Solid	09/25/2022 10:05	09/27/2022 09:04	CBC	Collected By Client
3265649007	Hyde Park 4A	Solid	09/25/2022 09:05	09/27/2022 09:04	CBC	Collected By Client
3265649008	Hyde Park 4B	Solid	09/25/2022 09:15	09/27/2022 09:04	CBC	Collected By Client
3265649009	Hyde Park 5A	Solid	09/25/2022 10:40	09/27/2022 09:04	CBC	Collected By Client
3265649010	Hyde Park 5B	Solid	09/25/2022 10:50	09/27/2022 09:04	CBC	Collected By Client



Reference

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- Except as qualified, Clean Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 136.
- Except as qualified, Safe Drinking Water Act sample analyses are consistent with methodology requirements in 40 CFR Part 141.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND) above the MDL
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Practical Quantitation Limit for this Project
ND	Not Detected - indicates that the analyte was Not Detected
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits
#	Please reference the result in the Results Section for analyte-level flags.



Project Notations

Sample Notations

Lab ID	Sample ID		
3265649001	Hyde Park 1A	S1	This sample was collected in a soil jar for the volatile analysis. The sample was prepared by Method 5035 after the 48-hour holding time.
		S2	This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.
3265649002	Hyde Park 1B	S3	This sample was collected in a soil jar for the volatile analysis. The sample was prepared by Method 5035 after the 48-hour holding time.
		S4	This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.
3265649003	Hyde Park 2A	S5	This sample was collected in a soil jar for the volatile analysis. The sample was prepared by Method 5035 after the 48-hour holding time.
		S6	This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.
3265649004	Hyde Park 2B	S7	This sample was collected in a soil jar for the volatile analysis. The sample was prepared by Method 5035 after the 48-hour holding time.
		S8	This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.
3265649005	Hyde Park 3A	S9	This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.
3265649006	Hyde Park 3B	S10	This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.
3265649007	Hyde Park 4A	S11	This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.
3265649008	Hyde Park 4B	S12	This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.
3265649009	Hyde Park 5A	S13	This sample was collected in a soil jar for the volatile analysis. The sample was prepared by Method 5035 after the 48-hour holding time.
		S14	This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.
3265649010	Hyde Park 5B	S15	This sample was analyzed at a dilution in the 8081 pesticide analysis. Reporting limits were adjusted accordingly.



Result Notations

Notation Ref.	
1	See attached subcontract Dioxin results from ALS Houston. SLW 11/11/2022
2	Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 60% in the bracketing CCV.
3	Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 35% in the bracketing CCV.
4	Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased low 76% in the bracketing CCV.
5	Method criteria requires continuing calibration verification (CCV) standards be less than or equal to 20% of the initial calibration for the 8081 analysis. This compound was biased high 34% in the bracketing CCV.
6	The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 34.9 and the control limits were 40 to 110. This result was reported at a dilution of 1.
7	The surrogate Terphenyl-d14 for method SW846 8270D was outside of control limits. The % Recovery was reported as 42 and the control limits were 45 to 126. This result was reported at a dilution of 1.
8	The QC sample type DUP for method S2540G-11 was outside the control limits for the analyte Moisture. The RPD was reported as 14.5 and the upper control limit is 10.
9	The QC sample type DUP for method S2540G-11 was outside the control limits for the analyte Total Solids. The RPD was reported as 11.1 and the upper control limit is 5.
10	The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Ethylbenzene. The % Recovery was reported as 61.9 and the control limits were 73 to 133.
11	The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Toluene. The % Recovery was reported as 72.4 and the control limits were 73 to 129.
12	The QC sample type MS for method SW846 8260C was outside the control limits for the analyte Total Xylenes. The % Recovery was reported as 59.9 and the control limits were 73 to 130.
13	The surrogate Nitrobenzene-d5 for method SW846 8270D was outside of control limits. The % Recovery was reported as 35.1 and the control limits were 38 to 112. This result was reported at a dilution of 1.



Detected Results Summary

Client Sample ID	Hyde Park 1A	Collected	09/25/2022 12:30
Lab Sample ID	3265649001	Lab Receipt	09/27/2022 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Total	13.4	mg/kg	3.6	1.2	SW846 6010D	#
Cadmium, Total	1.5	mg/kg	0.89	0.30	SW846 6010D	#
Copper, Total	64.5	mg/kg	3.6	1.2	SW846 6010D	#
Lead, Total	83.6	mg/kg	3.6	1.2	SW846 6010D	#
Mercury, Total	0.68	mg/kg	0.080	0.026	SW846 7471B	#
SEMIVOLATILES						
Acenaphthylene	62.7J	ug/kg	88.3	30.0	SW846 8270D	#
Anthracene	79.0J	ug/kg	88.3	30.0	SW846 8270D	#
Benzo(a)anthracene	187	ug/kg	88.3	30.0	SW846 8270D	#
Benzo(a)pyrene	271	ug/kg	88.3	30.0	SW846 8270D	#
Benzo(b)fluoranthene	157	ug/kg	88.3	30.0	SW846 8270D	#
Benzo(g,h,i)perylene	148	ug/kg	88.3	30.0	SW846 8270D	#
Benzo(k)fluoranthene	173	ug/kg	88.3	30.0	SW846 8270D	#
Chrysene	223	ug/kg	88.3	30.0	SW846 8270D	#
Dibenzo(a,h)anthracene	39.2J	ug/kg	88.3	30.0	SW846 8270D	#
Fluoranthene	205	ug/kg	88.3	30.0	SW846 8270D	#
Fluorene	36.4J	ug/kg	88.3	30.0	SW846 8270D	#
Indeno(1,2,3-cd)pyrene	161	ug/kg	88.3	30.0	SW846 8270D	#
Naphthalene	55.4J	ug/kg	88.3	30.0	SW846 8270D	#
Phenanthrene	165	ug/kg	88.3	30.0	SW846 8270D	#
Pyrene	290	ug/kg	88.3	30.0	SW846 8270D	#
Sub'd-CASH Labs						
Dioxin	See attached	ug/L			EPA 1613B	#
WET CHEMISTRY						
Moisture	44.5	%	0.1	0.01	S2540G-11	#
Total Solids	55.5	%	0.1	0.01	S2540G-11	#



Detected Results Summary

Client Sample ID	Hyde Park 1B	Collected	09/25/2022 12:40
Lab Sample ID	3265649002	Lab Receipt	09/27/2022 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Total	23.0	mg/kg	3.2	1.1	SW846 6010D	#
Cadmium, Total	0.53J	mg/kg	0.80	0.27	SW846 6010D	#
Copper, Total	33.4	mg/kg	3.2	1.1	SW846 6010D	#
Lead, Total	52.7	mg/kg	3.2	1.1	SW846 6010D	#
Mercury, Total	0.49	mg/kg	0.069	0.022	SW846 7471B	#
SEMIVOLATILES						
Anthracene	51.3J	ug/kg	68.5	23.3	SW846 8270D	#
Benzo(a)anthracene	121	ug/kg	68.5	23.3	SW846 8270D	#
Benzo(a)pyrene	153	ug/kg	68.5	23.3	SW846 8270D	#
Benzo(b)fluoranthene	89.9	ug/kg	68.5	23.3	SW846 8270D	#
Benzo(g,h,i)perylene	104	ug/kg	68.5	23.3	SW846 8270D	#
Benzo(k)fluoranthene	80.5	ug/kg	68.5	23.3	SW846 8270D	#
Chrysene	129	ug/kg	68.5	23.3	SW846 8270D	#
Fluoranthene	133	ug/kg	68.5	23.3	SW846 8270D	#
Indeno(1,2,3-cd)pyrene	87.3	ug/kg	68.5	23.3	SW846 8270D	#
Naphthalene	25.6J	ug/kg	68.5	23.3	SW846 8270D	#
Phenanthrene	102	ug/kg	68.5	23.3	SW846 8270D	#
Pyrene	176	ug/kg	68.5	23.3	SW846 8270D	#
Sub'd-CASH Labs						
Dioxin	See attached	ug/L			EPA 1613B	#
WET CHEMISTRY						
Moisture	38.2	%	0.1	0.01	S2540G-11	#
Total Solids	61.8	%	0.1	0.01	S2540G-11	#



Detected Results Summary

Client Sample ID	Hyde Park 2A	Collected	09/25/2022 11:40
Lab Sample ID	3265649003	Lab Receipt	09/27/2022 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Total	10.3	mg/kg	3.2	1.1	SW846 6010D	#
Cadmium, Total	1.5	mg/kg	0.81	0.27	SW846 6010D	#
Copper, Total	52.9	mg/kg	3.2	1.1	SW846 6010D	#
Lead, Total	65.2	mg/kg	3.2	1.1	SW846 6010D	#
Mercury, Total	0.57	mg/kg	0.072	0.023	SW846 7471B	#
SEMIVOLATILES						
Acenaphthylene	45.1J	ug/kg	83.5	28.4	SW846 8270D	#
Anthracene	42.1J	ug/kg	83.5	28.4	SW846 8270D	#
Benzo(a)anthracene	119	ug/kg	83.5	28.4	SW846 8270D	#
Benzo(a)pyrene	158	ug/kg	83.5	28.4	SW846 8270D	#
Benzo(b)fluoranthene	110	ug/kg	83.5	28.4	SW846 8270D	#
Benzo(g,h,i)perylene	104	ug/kg	83.5	28.4	SW846 8270D	#
Benzo(k)fluoranthene	110	ug/kg	83.5	28.4	SW846 8270D	#
Chrysene	140	ug/kg	83.5	28.4	SW846 8270D	#
Fluoranthene	153	ug/kg	83.5	28.4	SW846 8270D	#
Indeno(1,2,3-cd)pyrene	116	ug/kg	83.5	28.4	SW846 8270D	#
Naphthalene	36.1J	ug/kg	83.5	28.4	SW846 8270D	#
Phenanthrene	108	ug/kg	83.5	28.4	SW846 8270D	#
Pyrene	179	ug/kg	83.5	28.4	SW846 8270D	#
Sub'd-CASH Labs						
Dioxin	See attached	ug/L			EPA 1613B	#
WET CHEMISTRY						
Moisture	42.4	%	0.1	0.01	S2540G-11	#
Total Solids	57.6	%	0.1	0.01	S2540G-11	#



Detected Results Summary

Client Sample ID	Hyde Park 2B	Collected	09/25/2022 11:45
Lab Sample ID	3265649004	Lab Receipt	09/27/2022 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Total	14.3	mg/kg	2.8	0.95	SW846 6010D	#
Cadmium, Total	0.41J	mg/kg	0.71	0.24	SW846 6010D	#
Copper, Total	34.0	mg/kg	2.8	0.95	SW846 6010D	#
Lead, Total	55.0	mg/kg	2.8	0.95	SW846 6010D	#
Mercury, Total	0.71	mg/kg	0.073	0.023	SW846 7471B	#
SEMIVOLATILES						
Acenaphthylene	32.3J	ug/kg	74.4	25.3	SW846 8270D	#
Anthracene	42.4J	ug/kg	74.4	25.3	SW846 8270D	#
Benzo(a)anthracene	125	ug/kg	74.4	25.3	SW846 8270D	#
Benzo(a)pyrene	192	ug/kg	74.4	25.3	SW846 8270D	#
Benzo(b)fluoranthene	89.7	ug/kg	74.4	25.3	SW846 8270D	#
Benzo(g,h,i)perylene	106	ug/kg	74.4	25.3	SW846 8270D	#
Benzo(k)fluoranthene	102	ug/kg	74.4	25.3	SW846 8270D	#
Chrysene	146	ug/kg	74.4	25.3	SW846 8270D	#
Dibenzo(a,h)anthracene	25.9J	ug/kg	74.4	25.3	SW846 8270D	#
Fluoranthene	132	ug/kg	74.4	25.3	SW846 8270D	#
Indeno(1,2,3-cd)pyrene	104	ug/kg	74.4	25.3	SW846 8270D	#
Naphthalene	29.6J	ug/kg	74.4	25.3	SW846 8270D	#
Phenanthrene	92.3	ug/kg	74.4	25.3	SW846 8270D	#
Pyrene	168	ug/kg	74.4	25.3	SW846 8270D	#
Sub'd-CASH Labs						
Dioxin	See attached	ug/L			EPA 1613B	#
WET CHEMISTRY						
Moisture	37.8	%	0.1	0.01	S2540G-11	#
Total Solids	62.2	%	0.1	0.01	S2540G-11	#



Detected Results Summary

Client Sample ID	Hyde Park 3A	Collected	09/25/2022 09:55
Lab Sample ID	3265649005	Lab Receipt	09/27/2022 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Total	12.4	mg/kg	3.6	1.2	SW846 6010D	#
Cadmium, Total	2.1	mg/kg	0.91	0.30	SW846 6010D	#
Copper, Total	66.0	mg/kg	3.6	1.2	SW846 6010D	#
Lead, Total	102	mg/kg	3.6	1.2	SW846 6010D	#
Mercury, Total	1.1	mg/kg	0.083	0.027	SW846 7471B	#
SEMIVOLATILES						
Benzo(a)anthracene	85.4J	ug/kg	89.9	30.6	SW846 8270D	#
Benzo(a)pyrene	125	ug/kg	89.9	30.6	SW846 8270D	#
Benzo(b)fluoranthene	80.0J	ug/kg	89.9	30.6	SW846 8270D	#
Benzo(g,h,i)perylene	86.8J	ug/kg	89.9	30.6	SW846 8270D	#
Benzo(k)fluoranthene	75.3J	ug/kg	89.9	30.6	SW846 8270D	#
Chrysene	98.4	ug/kg	89.9	30.6	SW846 8270D	#
Dibenzo(a,h)anthracene	36.7J	ug/kg	89.9	30.6	SW846 8270D	#
Fluoranthene	90.5	ug/kg	89.9	30.6	SW846 8270D	#
Indeno(1,2,3-cd)pyrene	78.6J	ug/kg	89.9	30.6	SW846 8270D	#
Phenanthrene	58.7J	ug/kg	89.9	30.6	SW846 8270D	#
Pyrene	112	ug/kg	89.9	30.6	SW846 8270D	#
Sub'd-CASH Labs						
Dioxin	See attached	ug/L			EPA 1613B	#
WET CHEMISTRY						
Moisture	46.5	%	0.1	0.01	S2540G-11	#
Total Solids	53.5	%	0.1	0.01	S2540G-11	#



Detected Results Summary

Client Sample ID **Hyde Park 3B** Collected **09/25/2022 10:05**
 Lab Sample ID **3265649006** Lab Receipt **09/27/2022 09:04**

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>MDL</u>	<u>Method</u>	<u>Flag</u>
METALS						
Arsenic, Total	23.7	mg/kg	3.2	1.1	SW846 6010D	#
Cadmium, Total	0.57J	mg/kg	0.80	0.27	SW846 6010D	#
Copper, Total	36.0	mg/kg	3.2	1.1	SW846 6010D	#
Lead, Total	55.7	mg/kg	3.2	1.1	SW846 6010D	#
Mercury, Total	0.50	mg/kg	0.071	0.023	SW846 7471B	#
SEMIVOLATILES						
Acenaphthylene	42.2J	ug/kg	80.5	27.4	SW846 8270D	#
Anthracene	78.3J	ug/kg	80.5	27.4	SW846 8270D	#
Benzo(a)anthracene	188	ug/kg	80.5	27.4	SW846 8270D	#
Benzo(a)pyrene	270	ug/kg	80.5	27.4	SW846 8270D	#
Benzo(b)fluoranthene	153	ug/kg	80.5	27.4	SW846 8270D	#
Benzo(g,h,i)perylene	144	ug/kg	80.5	27.4	SW846 8270D	#
Benzo(k)fluoranthene	140	ug/kg	80.5	27.4	SW846 8270D	#
Chrysene	207	ug/kg	80.5	27.4	SW846 8270D	#
Dibenzo(a,h)anthracene	34.3J	ug/kg	80.5	27.4	SW846 8270D	#
Fluoranthene	208	ug/kg	80.5	27.4	SW846 8270D	#
Fluorene	35.1J	ug/kg	80.5	27.4	SW846 8270D	#
Indeno(1,2,3-cd)pyrene	138	ug/kg	80.5	27.4	SW846 8270D	#
Naphthalene	44.3J	ug/kg	80.5	27.4	SW846 8270D	#
Phenanthrene	168	ug/kg	80.5	27.4	SW846 8270D	#
Pyrene	272	ug/kg	80.5	27.4	SW846 8270D	#
Sub'd-CASH Labs						
Dioxin	See attached	ug/L			EPA 1613B	#
WET CHEMISTRY						
Moisture	39.1	%	0.1	0.01	S2540G-11	#
Total Solids	60.9	%	0.1	0.01	S2540G-11	#



Detected Results Summary

Client Sample ID **Hyde Park 4A** Collected **09/25/2022 09:05**
 Lab Sample ID **3265649007** Lab Receipt **09/27/2022 09:04**

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>MDL</u>	<u>Method</u>	<u>Flag</u>
METALS						
Arsenic, Total	11.1	mg/kg	3.5	1.2	SW846 6010D	#
Cadmium, Total	3.5	mg/kg	0.87	0.29	SW846 6010D	#
Copper, Total	71.0	mg/kg	3.5	1.2	SW846 6010D	#
Lead, Total	102	mg/kg	3.5	1.2	SW846 6010D	#
Mercury, Total	0.66	mg/kg	0.078	0.025	SW846 7471B	#
PESTICIDES						
4,4'-DDE	14.4J	ug/kg	15.3	4.9	SW846 8081B	#
SEMIVOLATILES						
Acenaphthylene	39.5J	ug/kg	90.3	30.7	SW846 8270D	#
Anthracene	70.4J	ug/kg	90.3	30.7	SW846 8270D	#
Benzo(a)anthracene	157	ug/kg	90.3	30.7	SW846 8270D	#
Benzo(a)pyrene	196	ug/kg	90.3	30.7	SW846 8270D	#
Benzo(b)fluoranthene	140	ug/kg	90.3	30.7	SW846 8270D	#
Benzo(g,h,i)perylene	129	ug/kg	90.3	30.7	SW846 8270D	#
Benzo(k)fluoranthene	137	ug/kg	90.3	30.7	SW846 8270D	#
Chrysene	188	ug/kg	90.3	30.7	SW846 8270D	#
Dibenzo(a,h)anthracene	42.7J	ug/kg	90.3	30.7	SW846 8270D	#
Fluoranthene	202	ug/kg	90.3	30.7	SW846 8270D	#
Fluorene	35.9J	ug/kg	90.3	30.7	SW846 8270D	#
Indeno(1,2,3-cd)pyrene	126	ug/kg	90.3	30.7	SW846 8270D	#
Naphthalene	34.8J	ug/kg	90.3	30.7	SW846 8270D	#
Phenanthrene	152	ug/kg	90.3	30.7	SW846 8270D	#
Pyrene	250	ug/kg	90.3	30.7	SW846 8270D	#
Sub'd-CASH Labs						
Dioxin	See attached	ug/L			EPA 1613B	#
WET CHEMISTRY						
Moisture	46.8	%	0.1	0.01	S2540G-11	#
Total Solids	53.2	%	0.1	0.01	S2540G-11	#



Detected Results Summary

Client Sample ID **Hyde Park 4B** Collected **09/25/2022 09:15**
 Lab Sample ID **3265649008** Lab Receipt **09/27/2022 09:04**

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>RDL</u>	<u>MDL</u>	<u>Method</u>	<u>Flag</u>
METALS						
Arsenic, Total	24.7	mg/kg	3.1	1.0	SW846 6010D	#
Cadmium, Total	0.64J	mg/kg	0.79	0.26	SW846 6010D	#
Copper, Total	46.5	mg/kg	3.1	1.0	SW846 6010D	#
Lead, Total	67.9	mg/kg	3.1	1.0	SW846 6010D	#
Mercury, Total	0.53	mg/kg	0.072	0.023	SW846 7471B	#
SEMIVOLATILES						
Acenaphthylene	40.3J	ug/kg	78.2	26.6	SW846 8270D	#
Anthracene	53.8J	ug/kg	78.2	26.6	SW846 8270D	#
Benzo(a)anthracene	151	ug/kg	78.2	26.6	SW846 8270D	#
Benzo(a)pyrene	226	ug/kg	78.2	26.6	SW846 8270D	#
Benzo(b)fluoranthene	129	ug/kg	78.2	26.6	SW846 8270D	#
Benzo(g,h,i)perylene	126	ug/kg	78.2	26.6	SW846 8270D	#
Benzo(k)fluoranthene	114	ug/kg	78.2	26.6	SW846 8270D	#
Chrysene	177	ug/kg	78.2	26.6	SW846 8270D	#
Dibenzo(a,h)anthracene	30.7J	ug/kg	78.2	26.6	SW846 8270D	#
Fluoranthene	144	ug/kg	78.2	26.6	SW846 8270D	#
Indeno(1,2,3-cd)pyrene	133	ug/kg	78.2	26.6	SW846 8270D	#
Naphthalene	28.8J	ug/kg	78.2	26.6	SW846 8270D	#
Phenanthrene	107	ug/kg	78.2	26.6	SW846 8270D	#
Pyrene	191	ug/kg	78.2	26.6	SW846 8270D	#
Sub'd-CASH Labs						
Dioxin	See attached	ug/L			EPA 1613B	#
WET CHEMISTRY						
Moisture	40.8	%	0.1	0.01	S2540G-11	#
Total Solids	59.2	%	0.1	0.01	S2540G-11	#



Detected Results Summary

Client Sample ID Hyde Park 5A Collected 09/25/2022 10:40
 Lab Sample ID 3265649009 Lab Receipt 09/27/2022 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Total	19.2	mg/kg	3.3	1.1	SW846 6010D	#
Cadmium, Total	0.65J	mg/kg	0.84	0.28	SW846 6010D	#
Copper, Total	46.7	mg/kg	3.3	1.1	SW846 6010D	#
Lead, Total	67.8	mg/kg	3.3	1.1	SW846 6010D	#
Mercury, Total	0.75	mg/kg	0.083	0.026	SW846 7471B	#
SEMIVOLATILES						
Acenaphthylene	39.3J	ug/kg	79.1	26.9	SW846 8270D	#
Anthracene	65.3J	ug/kg	79.1	26.9	SW846 8270D	#
Benzo(a)anthracene	170	ug/kg	79.1	26.9	SW846 8270D	#
Benzo(a)pyrene	241	ug/kg	79.1	26.9	SW846 8270D	#
Benzo(b)fluoranthene	129	ug/kg	79.1	26.9	SW846 8270D	#
Benzo(g,h,i)perylene	130	ug/kg	79.1	26.9	SW846 8270D	#
Benzo(k)fluoranthene	132	ug/kg	79.1	26.9	SW846 8270D	#
Chrysene	200	ug/kg	79.1	26.9	SW846 8270D	#
Dibenzo(a,h)anthracene	33.8J	ug/kg	79.1	26.9	SW846 8270D	#
Fluoranthene	184	ug/kg	79.1	26.9	SW846 8270D	#
Indeno(1,2,3-cd)pyrene	137	ug/kg	79.1	26.9	SW846 8270D	#
Naphthalene	31.4J	ug/kg	79.1	26.9	SW846 8270D	#
Phenanthrene	129	ug/kg	79.1	26.9	SW846 8270D	#
Pyrene	219	ug/kg	79.1	26.9	SW846 8270D	#
Sub'd-CASH Labs						
Dioxin	See attached	ug/L			EPA 1613B	#
WET CHEMISTRY						
Moisture	43.6	%	0.1	0.01	S2540G-11	#
Total Solids	56.4	%	0.1	0.01	S2540G-11	#



Detected Results Summary

Client Sample ID	Hyde Park 5B	Collected	09/25/2022 10:50
Lab Sample ID	3265649010	Lab Receipt	09/27/2022 09:04

Compound	Result	Units	RDL	MDL	Method	Flag
METALS						
Arsenic, Total	49.6	mg/kg	3.1	1.0	SW846 6010D	#
Cadmium, Total	0.59J	mg/kg	0.78	0.26	SW846 6010D	#
Copper, Total	41.6	mg/kg	3.1	1.0	SW846 6010D	#
Lead, Total	63.4	mg/kg	3.1	1.0	SW846 6010D	#
Mercury, Total	0.52	mg/kg	0.076	0.024	SW846 7471B	#
SEMIVOLATILES						
Anthracene	37.3J	ug/kg	79.8	27.1	SW846 8270D	#
Benzo(a)anthracene	75.8J	ug/kg	79.8	27.1	SW846 8270D	#
Benzo(a)pyrene	99.7	ug/kg	79.8	27.1	SW846 8270D	#
Benzo(b)fluoranthene	62.8J	ug/kg	79.8	27.1	SW846 8270D	#
Benzo(g,h,i)perylene	59.7J	ug/kg	79.8	27.1	SW846 8270D	#
Benzo(k)fluoranthene	48.7J	ug/kg	79.8	27.1	SW846 8270D	#
Chrysene	86.1	ug/kg	79.8	27.1	SW846 8270D	#
Fluoranthene	91.5	ug/kg	79.8	27.1	SW846 8270D	#
Indeno(1,2,3-cd)pyrene	59.4J	ug/kg	79.8	27.1	SW846 8270D	#
Phenanthrene	74.3J	ug/kg	79.8	27.1	SW846 8270D	#
Pyrene	118	ug/kg	79.8	27.1	SW846 8270D	#
Sub'd-CASH Labs						
Dioxin	See attached	ug/L			EPA 1613B	#
WET CHEMISTRY						
Moisture	40.9	%	0.1	0.01	S2540G-11	#
Total Solids	59.1	%	0.1	0.01	S2540G-11	#



Results

Client Sample ID	Hyde Park 1A	Collected	09/25/2022 12:30
Lab Sample ID	3265649001	Lab Receipt	09/27/2022 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Arsenic, Total	13.4	S1,S2	mg/kg	3.6	1.2	SW846 6010D	1	10/18/2022 16:57	A1S	A1
Cadmium, Total	1.5	S1,S2	mg/kg	0.89	0.30	SW846 6010D	1	10/18/2022 16:57	A1S	A1
Copper, Total	64.5	S1,S2	mg/kg	3.6	1.2	SW846 6010D	1	10/18/2022 16:57	A1S	A1
Lead, Total	83.6	S1,S2	mg/kg	3.6	1.2	SW846 6010D	1	10/18/2022 16:57	A1S	A1
Mercury, Total	0.68	S1,S2	mg/kg	0.080	0.026	SW846 7471B	1	10/10/2022 14:43	WDA	A

PESTICIDES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4,4'-DDD	ND	ND,2,S1,S2	ug/kg	15.1	9.8	SW846 8081B	5	10/06/2022 00:23	KJH	A
4,4'-DDE	ND	ND,3,S1,S2	ug/kg	15.1	4.9	SW846 8081B	5	10/06/2022 00:23	KJH	A
4,4'-DDT	ND	ND,4,S1,S2	ug/kg	15.1	4.4	SW846 8081B	5	10/06/2022 00:23	KJH	A
Chlordane	ND	ND,S1,S2	ug/kg	311	52.4	SW846 8081B	5	10/06/2022 00:23	KJH	A
Dieldrin	ND	ND,5,S1,S2	ug/kg	15.1	5.9	SW846 8081B	5	10/06/2022 00:23	KJH	A
Mirex	ND	ND,S1,S2	ug/kg	15.1	4.7	SW846 8081B	5	10/06/2022 00:23	KJH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	46.5%	30 - 135	10/06/2022 00:23	
Tetrachloro-m-xylene	877-09-8	45.3%	30 - 111	10/06/2022 00:23	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acenaphthene	ND	ND,S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Acenaphthylene	62.7J	J,S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Anthracene	79.0J	J,S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Benzo(a)anthracene	187	S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Benzo(a)pyrene	271	S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Benzo(b)fluoranthene	157	S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Benzo(g,h,i)perylene	148	S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Benzo(k)fluoranthene	173	S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Chrysene	223	S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Dibenzo(a,h)anthracene	39.2J	J,S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Fluoranthene	205	S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Fluorene	36.4J	J,S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Indeno(1,2,3-cd)pyrene	161	S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Naphthalene	55.4J	J,S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Phenanthrene	165	S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A
Pyrene	290	S1,S2	ug/kg	88.3	30.0	SW846 8270D	1	09/28/2022 09:11	GEC	A



Results

Client Sample ID	Hyde Park 1A	Collected	09/25/2022 12:30
Lab Sample ID	3265649001	Lab Receipt	09/27/2022 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
<i>SURROGATES</i>										
Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
2,4,6-Tribromophenol	118-79-6			53.8%		19 – 132		09/28/2022 09:11		
2-Fluorobiphenyl	321-60-8			54.1%		40 – 110		09/28/2022 09:11		
2-Fluorophenol	367-12-4			56.5%		26 – 116		09/28/2022 09:11		
Nitrobenzene-d5	4165-60-0			54.8%		38 – 112		09/28/2022 09:11		
Phenol-d5	4165-62-2			58.9%		35 – 111		09/28/2022 09:11		
Terphenyl-d14	98904-43-9			63.4%		45 – 126		09/28/2022 09:11		

Sub'd-CASH Labs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dioxin	See attached	1,S1,S2	ug/L			EPA 1613B	1	11/11/2022 15:33	SUB	C

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Benzene	ND	ND,S1,S2	ug/kg	3.2	0.80	SW846 8260C	1	09/30/2022 05:52	VLM	A4
Ethylbenzene	ND	ND,S1,S2	ug/kg	3.2	1.1	SW846 8260C	1	09/30/2022 05:52	VLM	A4
Toluene	ND	ND,S1,S2	ug/kg	3.2	1.1	SW846 8260C	1	09/30/2022 05:52	VLM	A4
Total Xylenes	ND	ND,S1,S2	ug/kg	9.7	2.3	SW846 8260C	1	09/30/2022 05:52	VLM	A4

SURROGATES

Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
1,2-Dichloroethane-d4	17060-07-0			89.2%		56 – 124		09/30/2022 05:52		
4-Bromofluorobenzene	460-00-4			98.7%		51 – 128		09/30/2022 05:52		
Dibromofluoromethane	1868-53-7			99.6%		62 – 123		09/30/2022 05:52		
Toluene-d8	2037-26-5			94%		59 – 131		09/30/2022 05:52		

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	44.5	S1,S2	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A
Total Solids	55.5	S1,S2	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A



Results

Client Sample ID	Hyde Park 1B	Collected	09/25/2022 12:40
Lab Sample ID	3265649002	Lab Receipt	09/27/2022 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Arsenic, Total	23.0	S3,S4	mg/kg	3.2	1.1	SW846 6010D	1	10/18/2022 16:58	A1S	A1
Cadmium, Total	0.53J	J,S3,S4	mg/kg	0.80	0.27	SW846 6010D	1	10/18/2022 16:58	A1S	A1
Copper, Total	33.4	S3,S4	mg/kg	3.2	1.1	SW846 6010D	1	10/18/2022 16:58	A1S	A1
Lead, Total	52.7	S3,S4	mg/kg	3.2	1.1	SW846 6010D	1	10/18/2022 16:58	A1S	A1
Mercury, Total	0.49	S3,S4	mg/kg	0.069	0.022	SW846 7471B	1	10/10/2022 14:44	WDA	A

PESTICIDES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4,4'-DDD	ND	ND,2,S3,S4	ug/kg	13.2	8.6	SW846 8081B	5	10/06/2022 00:33	KJH	A
4,4'-DDE	ND	ND,3,S3,S4	ug/kg	13.2	4.3	SW846 8081B	5	10/06/2022 00:33	KJH	A
4,4'-DDT	ND	ND,4,S3,S4	ug/kg	13.2	3.8	SW846 8081B	5	10/06/2022 00:33	KJH	A
Chlordane	ND	ND,S3,S4	ug/kg	272	45.9	SW846 8081B	5	10/06/2022 00:33	KJH	A
Dieldrin	ND	ND,5,S3,S4	ug/kg	13.2	5.1	SW846 8081B	5	10/06/2022 00:33	KJH	A
Mirex	ND	ND,S3,S4	ug/kg	13.2	4.1	SW846 8081B	5	10/06/2022 00:33	KJH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	48.4%	30 - 135	10/06/2022 00:33	
Tetrachloro-m-xylene	877-09-8	52.6%	30 - 111	10/06/2022 00:33	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acenaphthene	ND	ND,S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Acenaphthylene	ND	ND,S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Anthracene	51.3J	J,S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Benzo(a)anthracene	121	S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Benzo(a)pyrene	153	S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Benzo(b)fluoranthene	89.9	S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Benzo(g,h,i)perylene	104	S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Benzo(k)fluoranthene	80.5	S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Chrysene	129	S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Dibenzo(a,h)anthracene	ND	ND,S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Fluoranthene	133	S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Fluorene	ND	ND,S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Indeno(1,2,3-cd)pyrene	87.3	S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Naphthalene	25.6J	J,S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Phenanthrene	102	S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A
Pyrene	176	S3,S4	ug/kg	68.5	23.3	SW846 8270D	1	09/28/2022 09:36	GEC	A



Results

Client Sample ID	Hyde Park 1B	Collected	09/25/2022 12:40
Lab Sample ID	3265649002	Lab Receipt	09/27/2022 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
<i>SURROGATES</i>										
Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
2,4,6-Tribromophenol	118-79-6			54.8%		19 – 132		09/28/2022 09:36		
2-Fluorobiphenyl	321-60-8			56.3%		40 – 110		09/28/2022 09:36		
2-Fluorophenol	367-12-4			60.9%		26 – 116		09/28/2022 09:36		
Nitrobenzene-d5	4165-60-0			57.3%		38 – 112		09/28/2022 09:36		
Phenol-d5	4165-62-2			61.4%		35 – 111		09/28/2022 09:36		
Terphenyl-d14	98904-43-9			66.1%		45 – 126		09/28/2022 09:36		

Sub'd-CASH Labs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dioxin	See attached	1,S3,S4	ug/L			EPA 1613B	1	11/11/2022 15:34	SUB	C

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Benzene	ND	ND,S3,S4	ug/kg	3.1	0.77	SW846 8260C	1	09/30/2022 06:16	VLM	A3
Ethylbenzene	ND	ND,S3,S4	ug/kg	3.1	1.0	SW846 8260C	1	09/30/2022 06:16	VLM	A3
Toluene	ND	ND,S3,S4	ug/kg	3.1	1.0	SW846 8260C	1	09/30/2022 06:16	VLM	A3
Total Xylenes	ND	ND,S3,S4	ug/kg	9.3	2.2	SW846 8260C	1	09/30/2022 06:16	VLM	A3

SURROGATES

Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
1,2-Dichloroethane-d4	17060-07-0			88.9%		56 – 124		09/30/2022 06:16		
4-Bromofluorobenzene	460-00-4			101%		51 – 128		09/30/2022 06:16		
Dibromofluoromethane	1868-53-7			100%		62 – 123		09/30/2022 06:16		
Toluene-d8	2037-26-5			94.3%		59 – 131		09/30/2022 06:16		

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	38.2	S3,S4	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A
Total Solids	61.8	S3,S4	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A



Results

Client Sample ID	Hyde Park 2A	Collected	09/25/2022 11:40
Lab Sample ID	3265649003	Lab Receipt	09/27/2022 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Arsenic, Total	10.3	S5,S6	mg/kg	3.2	1.1	SW846 6010D	1	10/18/2022 16:59	A1S	A1
Cadmium, Total	1.5	S5,S6	mg/kg	0.81	0.27	SW846 6010D	1	10/18/2022 16:59	A1S	A1
Copper, Total	52.9	S5,S6	mg/kg	3.2	1.1	SW846 6010D	1	10/18/2022 16:59	A1S	A1
Lead, Total	65.2	S5,S6	mg/kg	3.2	1.1	SW846 6010D	1	10/18/2022 16:59	A1S	A1
Mercury, Total	0.57	S5,S6	mg/kg	0.072	0.023	SW846 7471B	1	10/10/2022 14:48	WDA	A

PESTICIDES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4,4'-DDD	ND	ND,2,S5,S6	ug/kg	14.3	9.2	SW846 8081B	5	10/05/2022 23:30	KJH	A
4,4'-DDE	ND	ND,3,S5,S6	ug/kg	14.3	4.6	SW846 8081B	5	10/05/2022 23:30	KJH	A
4,4'-DDT	ND	ND,4,S5,S6	ug/kg	14.3	4.1	SW846 8081B	5	10/05/2022 23:30	KJH	A
Chlordane	ND	ND,S5,S6	ug/kg	294	49.6	SW846 8081B	5	10/05/2022 23:30	KJH	A
Dieldrin	ND	ND,5,S5,S6	ug/kg	14.3	5.5	SW846 8081B	5	10/05/2022 23:30	KJH	A
Mirex	ND	ND,S5,S6	ug/kg	14.3	4.5	SW846 8081B	5	10/05/2022 23:30	KJH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	46.3%	30 - 135	10/05/2022 23:30	
Tetrachloro-m-xylene	877-09-8	47.7%	30 - 111	10/05/2022 23:30	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acenaphthene	ND	ND,S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Acenaphthylene	45.1J	J,S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Anthracene	42.1J	J,S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Benzo(a)anthracene	119	S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Benzo(a)pyrene	158	S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Benzo(b)fluoranthene	110	S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Benzo(g,h,i)perylene	104	S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Benzo(k)fluoranthene	110	S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Chrysene	140	S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Dibenzo(a,h)anthracene	ND	ND,S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Fluoranthene	153	S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Fluorene	ND	ND,S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Indeno(1,2,3-cd)pyrene	116	S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Naphthalene	36.1J	J,S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Phenanthrene	108	S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A
Pyrene	179	S5,S6	ug/kg	83.5	28.4	SW846 8270D	1	09/28/2022 10:00	GEC	A



Results

Client Sample ID	Hyde Park 2A	Collected	09/25/2022 11:40
Lab Sample ID	3265649003	Lab Receipt	09/27/2022 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
<i>SURROGATES</i>										
Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
2,4,6-Tribromophenol	118-79-6			57.8%		19 – 132		09/28/2022 10:00		
2-Fluorobiphenyl	321-60-8			55.1%		40 – 110		09/28/2022 10:00		
2-Fluorophenol	367-12-4			61.6%		26 – 116		09/28/2022 10:00		
Nitrobenzene-d5	4165-60-0			58.8%		38 – 112		09/28/2022 10:00		
Phenol-d5	4165-62-2			63.5%		35 – 111		09/28/2022 10:00		
Terphenyl-d14	98904-43-9			64.6%		45 – 126		09/28/2022 10:00		

Sub'd-CASH Labs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dioxin	See attached	1,S5,S6	ug/L			EPA 1613B	1	11/11/2022 15:35	SUB	C

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Benzene	ND	ND,S5,S6	ug/kg	3.0	0.75	SW846 8260C	1	09/30/2022 06:41	VLM	A3
Ethylbenzene	ND	ND,S5,S6	ug/kg	3.0	1.0	SW846 8260C	1	09/30/2022 06:41	VLM	A3
Toluene	ND	ND,S5,S6	ug/kg	3.0	1.0	SW846 8260C	1	09/30/2022 06:41	VLM	A3
Total Xylenes	ND	ND,S5,S6	ug/kg	9.0	2.1	SW846 8260C	1	09/30/2022 06:41	VLM	A3

SURROGATES

Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
1,2-Dichloroethane-d4	17060-07-0			89.2%		56 – 124		09/30/2022 06:41		
4-Bromofluorobenzene	460-00-4			97.9%		51 – 128		09/30/2022 06:41		
Dibromofluoromethane	1868-53-7			103%		62 – 123		09/30/2022 06:41		
Toluene-d8	2037-26-5			90.6%		59 – 131		09/30/2022 06:41		

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	42.4	S5,S6	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A
Total Solids	57.6	S5,S6	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A



Results

Client Sample ID	Hyde Park 2B	Collected	09/25/2022 11:45
Lab Sample ID	3265649004	Lab Receipt	09/27/2022 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Arsenic, Total	14.3	S7,S8	mg/kg	2.8	0.95	SW846 6010D	1	10/18/2022 17:02	A1S	A1
Cadmium, Total	0.41J	J,S7,S8	mg/kg	0.71	0.24	SW846 6010D	1	10/18/2022 17:02	A1S	A1
Copper, Total	34.0	S7,S8	mg/kg	2.8	0.95	SW846 6010D	1	10/18/2022 17:02	A1S	A1
Lead, Total	55.0	S7,S8	mg/kg	2.8	0.95	SW846 6010D	1	10/18/2022 17:02	A1S	A1
Mercury, Total	0.71	S7,S8	mg/kg	0.073	0.023	SW846 7471B	1	10/10/2022 14:49	WDA	A

PESTICIDES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4,4'-DDD	ND	ND,2,S7,S8	ug/kg	13.5	8.7	SW846 8081B	5	10/06/2022 00:12	KJH	A
4,4'-DDE	ND	ND,3,S7,S8	ug/kg	13.5	4.4	SW846 8081B	5	10/06/2022 00:12	KJH	A
4,4'-DDT	ND	ND,4,S7,S8	ug/kg	13.5	3.9	SW846 8081B	5	10/06/2022 00:12	KJH	A
Chlordane	ND	ND,S7,S8	ug/kg	278	46.8	SW846 8081B	5	10/06/2022 00:12	KJH	A
Dieldrin	ND	ND,5,S7,S8	ug/kg	13.5	5.2	SW846 8081B	5	10/06/2022 00:12	KJH	A
Mirex	ND	ND,S7,S8	ug/kg	13.5	4.2	SW846 8081B	5	10/06/2022 00:12	KJH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	46.3%	30 – 135	10/06/2022 00:12	
Tetrachloro-m-xylene	877-09-8	42.9%	30 – 111	10/06/2022 00:12	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acenaphthene	ND	ND,S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Acenaphthylene	32.3J	J,S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Anthracene	42.4J	J,S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Benzo(a)anthracene	125	S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Benzo(a)pyrene	192	S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Benzo(b)fluoranthene	89.7	S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Benzo(g,h,i)perylene	106	S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Benzo(k)fluoranthene	102	S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Chrysene	146	S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Dibenzo(a,h)anthracene	25.9J	J,S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Fluoranthene	132	S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Fluorene	ND	ND,S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Indeno(1,2,3-cd)pyrene	104	S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Naphthalene	29.6J	J,S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Phenanthrene	92.3	S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A
Pyrene	168	S7,S8	ug/kg	74.4	25.3	SW846 8270D	1	09/28/2022 10:25	GEC	A



Results

Client Sample ID	Hyde Park 2B	Collected	09/25/2022 11:45
Lab Sample ID	3265649004	Lab Receipt	09/27/2022 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
<i>SURROGATES</i>										
Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
2,4,6-Tribromophenol	118-79-6			55.9%		19 – 132		09/28/2022 10:25		
2-Fluorobiphenyl	321-60-8			53.1%		40 – 110		09/28/2022 10:25		
2-Fluorophenol	367-12-4			65%		26 – 116		09/28/2022 10:25		
Nitrobenzene-d5	4165-60-0			60.5%		38 – 112		09/28/2022 10:25		
Phenol-d5	4165-62-2			65.9%		35 – 111		09/28/2022 10:25		
Terphenyl-d14	98904-43-9			57.3%		45 – 126		09/28/2022 10:25		

Sub'd-CASH Labs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dioxin	See attached	1,S7,S8	ug/L			EPA 1613B	1	11/11/2022 15:35	SUB	C

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Benzene	ND	ND,S7,S8	ug/kg	2.9	0.72	SW846 8260C	1	09/30/2022 07:05	VLM	A3
Ethylbenzene	ND	ND,S7,S8	ug/kg	2.9	0.98	SW846 8260C	1	09/30/2022 07:05	VLM	A3
Toluene	ND	ND,S7,S8	ug/kg	2.9	0.97	SW846 8260C	1	09/30/2022 07:05	VLM	A3
Total Xylenes	ND	ND,S7,S8	ug/kg	8.7	2.0	SW846 8260C	1	09/30/2022 07:05	VLM	A3

SURROGATES

Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
1,2-Dichloroethane-d4	17060-07-0			92.3%		56 – 124		09/30/2022 07:05		
4-Bromofluorobenzene	460-00-4			103%		51 – 128		09/30/2022 07:05		
Dibromofluoromethane	1868-53-7			103%		62 – 123		09/30/2022 07:05		
Toluene-d8	2037-26-5			97%		59 – 131		09/30/2022 07:05		

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	37.8	S7,S8	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A
Total Solids	62.2	S7,S8	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A



Results

Client Sample ID	Hyde Park 3A	Collected	09/25/2022 09:55
Lab Sample ID	3265649005	Lab Receipt	09/27/2022 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Arsenic, Total	12.4	S9	mg/kg	3.6	1.2	SW846 6010D	1	10/18/2022 17:03	A1S	A1
Cadmium, Total	2.1	S9	mg/kg	0.91	0.30	SW846 6010D	1	10/18/2022 17:03	A1S	A1
Copper, Total	66.0	S9	mg/kg	3.6	1.2	SW846 6010D	1	10/18/2022 17:03	A1S	A1
Lead, Total	102	S9	mg/kg	3.6	1.2	SW846 6010D	1	10/18/2022 17:03	A1S	A1
Mercury, Total	1.1	S9	mg/kg	0.083	0.027	SW846 7471B	1	10/10/2022 14:50	WDA	A

PESTICIDES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4,4'-DDD	ND	ND,2,S9	ug/kg	15.3	9.9	SW846 8081B	5	10/05/2022 23:40	KJH	A
4,4'-DDE	ND	ND,3,S9	ug/kg	15.3	4.9	SW846 8081B	5	10/05/2022 23:40	KJH	A
4,4'-DDT	ND	ND,4,S9	ug/kg	15.3	4.4	SW846 8081B	5	10/05/2022 23:40	KJH	A
Chlordane	ND	ND,S9	ug/kg	315	53.1	SW846 8081B	5	10/05/2022 23:40	KJH	A
Dieldrin	ND	ND,5,S9	ug/kg	15.3	5.9	SW846 8081B	5	10/05/2022 23:40	KJH	A
Mirex	ND	ND,S9	ug/kg	15.3	4.8	SW846 8081B	5	10/05/2022 23:40	KJH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	55.1%	30 – 135	10/05/2022 23:40	
Tetrachloro-m-xylene	877-09-8	54.1%	30 – 111	10/05/2022 23:40	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acenaphthene	ND	ND,S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Acenaphthylene	ND	ND,S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Anthracene	ND	ND,S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Benzo(a)anthracene	85.4J	J,S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Benzo(a)pyrene	125	S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Benzo(b)fluoranthene	80.0J	J,S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Benzo(g,h,i)perylene	86.8J	J,S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Benzo(k)fluoranthene	75.3J	J,S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Chrysene	98.4	S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Dibenzo(a,h)anthracene	36.7J	J,S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Fluoranthene	90.5	S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Fluorene	ND	ND,S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Indeno(1,2,3-cd)pyrene	78.6J	J,S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Naphthalene	ND	ND,S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Phenanthrene	58.7J	J,S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A
Pyrene	112	S9	ug/kg	89.9	30.6	SW846 8270D	1	09/28/2022 10:49	GEC	A



Results

Client Sample ID	Hyde Park 3A	Collected	09/25/2022 09:55
Lab Sample ID	3265649005	Lab Receipt	09/27/2022 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
<i>SURROGATES</i>										
Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
2,4,6-Tribromophenol	118-79-6			42.5%		19 – 132		09/28/2022 10:49		
2-Fluorobiphenyl	321-60-8			34.9*%		40 – 110		09/28/2022 10:49		6
2-Fluorophenol	367-12-4			58.7%		26 – 116		09/28/2022 10:49		
Nitrobenzene-d5	4165-60-0			52.5%		38 – 112		09/28/2022 10:49		
Phenol-d5	4165-62-2			60.4%		35 – 111		09/28/2022 10:49		
Terphenyl-d14	98904-43-9			42*%		45 – 126		09/28/2022 10:49		7

Sub'd-CASH Labs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dioxin	See attached	1,S9	ug/L			EPA 1613B	1	11/11/2022 15:35	SUB	F

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Benzene	ND	ND,S9	ug/kg	3.7	0.93	SW846 8260C	1	09/30/2022 01:00	VLM	C
Ethylbenzene	ND	ND,S9	ug/kg	3.7	1.3	SW846 8260C	1	09/30/2022 01:00	VLM	C
Toluene	ND	ND,S9	ug/kg	3.7	1.2	SW846 8260C	1	09/30/2022 01:00	VLM	C
Total Xylenes	ND	ND,S9	ug/kg	11.2	2.6	SW846 8260C	1	09/30/2022 01:00	VLM	C

SURROGATES

Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
1,2-Dichloroethane-d4	17060-07-0			90.9%		56 – 124		09/30/2022 01:00		
4-Bromofluorobenzene	460-00-4			107%		51 – 128		09/30/2022 01:00		
Dibromofluoromethane	1868-53-7			99.7%		62 – 123		09/30/2022 01:00		
Toluene-d8	2037-26-5			98.1%		59 – 131		09/30/2022 01:00		

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	46.5	8,S9	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A
Total Solids	53.5	9,S9	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A



Results

Client Sample ID	Hyde Park 3B	Collected	09/25/2022 10:05
Lab Sample ID	3265649006	Lab Receipt	09/27/2022 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Arsenic, Total	23.7	S10	mg/kg	3.2	1.1	SW846 6010D	1	10/18/2022 17:04	A1S	A1
Cadmium, Total	0.57J	J,S10	mg/kg	0.80	0.27	SW846 6010D	1	10/18/2022 17:04	A1S	A1
Copper, Total	36.0	S10	mg/kg	3.2	1.1	SW846 6010D	1	10/18/2022 17:04	A1S	A1
Lead, Total	55.7	S10	mg/kg	3.2	1.1	SW846 6010D	1	10/18/2022 17:04	A1S	A1
Mercury, Total	0.50	S10	mg/kg	0.071	0.023	SW846 7471B	1	10/10/2022 14:51	WDA	A

PESTICIDES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4,4'-DDD	ND	ND,2,S10	ug/kg	13.4	8.7	SW846 8081B	5	10/05/2022 23:51	KJH	A
4,4'-DDE	ND	ND,3,S10	ug/kg	13.4	4.3	SW846 8081B	5	10/05/2022 23:51	KJH	A
4,4'-DDT	ND	ND,4,S10	ug/kg	13.4	3.9	SW846 8081B	5	10/05/2022 23:51	KJH	A
Chlordane	ND	ND,S10	ug/kg	276	46.6	SW846 8081B	5	10/05/2022 23:51	KJH	A
Dieldrin	ND	ND,5,S10	ug/kg	13.4	5.2	SW846 8081B	5	10/05/2022 23:51	KJH	A
Mirex	ND	ND,S10	ug/kg	13.4	4.2	SW846 8081B	5	10/05/2022 23:51	KJH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	49%	30 – 135	10/05/2022 23:51	
Tetrachloro-m-xylene	877-09-8	53.9%	30 – 111	10/05/2022 23:51	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acenaphthene	ND	ND,S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Acenaphthylene	42.2J	J,S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Anthracene	78.3J	J,S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Benzo(a)anthracene	188	S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Benzo(a)pyrene	270	S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Benzo(b)fluoranthene	153	S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Benzo(g,h,i)perylene	144	S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Benzo(k)fluoranthene	140	S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Chrysene	207	S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Dibenzo(a,h)anthracene	34.3J	J,S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Fluoranthene	208	S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Fluorene	35.1J	J,S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Indeno(1,2,3-cd)pyrene	138	S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Naphthalene	44.3J	J,S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Phenanthrene	168	S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A
Pyrene	272	S10	ug/kg	80.5	27.4	SW846 8270D	1	09/28/2022 11:14	GEC	A



Results

Client Sample ID	Hyde Park 3B	Collected	09/25/2022 10:05
Lab Sample ID	3265649006	Lab Receipt	09/27/2022 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
<i>SURROGATES</i>										
Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
2,4,6-Tribromophenol	118-79-6			53.2%		19 – 132		09/28/2022 11:14		
2-Fluorobiphenyl	321-60-8			54.5%		40 – 110		09/28/2022 11:14		
2-Fluorophenol	367-12-4			58.8%		26 – 116		09/28/2022 11:14		
Nitrobenzene-d5	4165-60-0			55.2%		38 – 112		09/28/2022 11:14		
Phenol-d5	4165-62-2			59.7%		35 – 111		09/28/2022 11:14		
Terphenyl-d14	98904-43-9			62.3%		45 – 126		09/28/2022 11:14		

Sub'd-CASH Labs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dioxin	See attached	S10	ug/L			EPA 1613B	1	11/11/2022 15:36	SUB	F

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Benzene	ND	ND,S10	ug/kg	3.3	0.83	SW846 8260C	1	09/30/2022 01:24	VLM	D
Ethylbenzene	ND	ND,S10	ug/kg	3.3	1.1	SW846 8260C	1	09/30/2022 01:24	VLM	D
Toluene	ND	ND,S10	ug/kg	3.3	1.1	SW846 8260C	1	09/30/2022 01:24	VLM	D
Total Xylenes	ND	ND,S10	ug/kg	9.9	2.3	SW846 8260C	1	09/30/2022 01:24	VLM	D

SURROGATES

Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
1,2-Dichloroethane-d4	17060-07-0			91.5%		56 – 124		09/30/2022 01:24		
4-Bromofluorobenzene	460-00-4			103%		51 – 128		09/30/2022 01:24		
Dibromofluoromethane	1868-53-7			99.6%		62 – 123		09/30/2022 01:24		
Toluene-d8	2037-26-5			95.2%		59 – 131		09/30/2022 01:24		

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	39.1	S10	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A
Total Solids	60.9	S10	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A



Results

Client Sample ID	Hyde Park 4A	Collected	09/25/2022 09:05
Lab Sample ID	3265649007	Lab Receipt	09/27/2022 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Arsenic, Total	11.1	S11	mg/kg	3.5	1.2	SW846 6010D	1	10/18/2022 17:05	A1S	A1
Cadmium, Total	3.5	S11	mg/kg	0.87	0.29	SW846 6010D	1	10/18/2022 17:05	A1S	A1
Copper, Total	71.0	S11	mg/kg	3.5	1.2	SW846 6010D	1	10/18/2022 17:05	A1S	A1
Lead, Total	102	S11	mg/kg	3.5	1.2	SW846 6010D	1	10/18/2022 17:05	A1S	A1
Mercury, Total	0.66	S11	mg/kg	0.078	0.025	SW846 7471B	1	10/10/2022 14:55	WDA	A

PESTICIDES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4,4'-DDD	ND	ND,2,S11	ug/kg	15.3	9.9	SW846 8081B	5	10/06/2022 00:02	KJH	A
4,4'-DDE	14.4J	J,3,S11	ug/kg	15.3	4.9	SW846 8081B	5	10/06/2022 00:02	KJH	A
4,4'-DDT	ND	ND,4,S11	ug/kg	15.3	4.4	SW846 8081B	5	10/06/2022 00:02	KJH	A
Chlordane	ND	ND,S11	ug/kg	314	53.0	SW846 8081B	5	10/06/2022 00:02	KJH	A
Dieldrin	ND	ND,5,S11	ug/kg	15.3	5.9	SW846 8081B	5	10/06/2022 00:02	KJH	A
Mirex	ND	ND,S11	ug/kg	15.3	4.8	SW846 8081B	5	10/06/2022 00:02	KJH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	52.1%	30 - 135	10/06/2022 00:02	
Tetrachloro-m-xylene	877-09-8	53.4%	30 - 111	10/06/2022 00:02	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acenaphthene	ND	ND,S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Acenaphthylene	39.5J	J,S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Anthracene	70.4J	J,S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Benzo(a)anthracene	157	S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Benzo(a)pyrene	196	S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Benzo(b)fluoranthene	140	S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Benzo(g,h,i)perylene	129	S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Benzo(k)fluoranthene	137	S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Chrysene	188	S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Dibenzo(a,h)anthracene	42.7J	J,S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Fluoranthene	202	S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Fluorene	35.9J	J,S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Indeno(1,2,3-cd)pyrene	126	S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Naphthalene	34.8J	J,S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Phenanthrene	152	S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A
Pyrene	250	S11	ug/kg	90.3	30.7	SW846 8270D	1	09/28/2022 11:39	GEC	A



Results

Client Sample ID	Hyde Park 4A	Collected	09/25/2022 09:05
Lab Sample ID	3265649007	Lab Receipt	09/27/2022 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
<i>SURROGATES</i>										
Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
2,4,6-Tribromophenol	118-79-6			50.4%		19 – 132		09/28/2022 11:39		
2-Fluorobiphenyl	321-60-8			42.9%		40 – 110		09/28/2022 11:39		
2-Fluorophenol	367-12-4			33.8%		26 – 116		09/28/2022 11:39		
Nitrobenzene-d5	4165-60-0			35.1*%		38 – 112		09/28/2022 11:39		13
Phenol-d5	4165-62-2			37.5%		35 – 111		09/28/2022 11:39		
Terphenyl-d14	98904-43-9			59.2%		45 – 126		09/28/2022 11:39		

Sub'd-CASH Labs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dioxin	See attached	1,S11	ug/L			EPA 1613B	1	11/11/2022 15:36	SUB	F

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Benzene	ND	ND,S11	ug/kg	2.6	0.65	SW846 8260C	1	09/30/2022 01:48	VLM	C
Ethylbenzene	ND	ND,10,S11	ug/kg	2.6	0.88	SW846 8260C	1	09/30/2022 01:48	VLM	C
Toluene	ND	ND,11,S11	ug/kg	2.6	0.87	SW846 8260C	1	09/30/2022 01:48	VLM	C
Total Xylenes	ND	ND,12,S11	ug/kg	7.8	1.8	SW846 8260C	1	09/30/2022 01:48	VLM	C

SURROGATES

Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
1,2-Dichloroethane-d4	17060-07-0			88.3%		56 – 124		09/30/2022 01:48		
4-Bromofluorobenzene	460-00-4			101%		51 – 128		09/30/2022 01:48		
Dibromofluoromethane	1868-53-7			98.4%		62 – 123		09/30/2022 01:48		
Toluene-d8	2037-26-5			93.1%		59 – 131		09/30/2022 01:48		

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	46.8	S11	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A
Total Solids	53.2	S11	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A



Results

Client Sample ID	Hyde Park 4B	Collected	09/25/2022 09:15
Lab Sample ID	3265649008	Lab Receipt	09/27/2022 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Arsenic, Total	24.7	S12	mg/kg	3.1	1.0	SW846 6010D	1	10/19/2022 14:06	A1S	A1
Cadmium, Total	0.64J	J,S12	mg/kg	0.79	0.26	SW846 6010D	1	10/19/2022 14:06	A1S	A1
Copper, Total	46.5	S12	mg/kg	3.1	1.0	SW846 6010D	1	10/19/2022 14:06	A1S	A1
Lead, Total	67.9	S12	mg/kg	3.1	1.0	SW846 6010D	1	10/19/2022 14:06	A1S	A1
Mercury, Total	0.53	S12	mg/kg	0.072	0.023	SW846 7471B	1	10/10/2022 14:56	WDA	A

PESTICIDES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4,4'-DDD	ND	ND,2,S1 2	ug/kg	14.1	9.1	SW846 8081B	5	10/06/2022 00:44	KJH	A
4,4'-DDE	ND	ND,3,S1 2	ug/kg	14.1	4.6	SW846 8081B	5	10/06/2022 00:44	KJH	A
4,4'-DDT	ND	ND,4,S1 2	ug/kg	14.1	4.1	SW846 8081B	5	10/06/2022 00:44	KJH	A
Chlordane	ND	ND,S12	ug/kg	290	48.9	SW846 8081B	5	10/06/2022 00:44	KJH	A
Dieldrin	ND	ND,5,S1 2	ug/kg	14.1	5.5	SW846 8081B	5	10/06/2022 00:44	KJH	A
Mirex	ND	ND,S12	ug/kg	14.1	4.4	SW846 8081B	5	10/06/2022 00:44	KJH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	41.3%	30 - 135	10/06/2022 00:44	
Tetrachloro-m-xylene	877-09-8	41.7%	30 - 111	10/06/2022 00:44	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acenaphthene	ND	ND,S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Acenaphthylene	40.3J	J,S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Anthracene	53.8J	J,S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Benzo(a)anthracene	151	S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Benzo(a)pyrene	226	S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Benzo(b)fluoranthene	129	S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Benzo(g,h,i)perylene	126	S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Benzo(k)fluoranthene	114	S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Chrysene	177	S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Dibenzo(a,h)anthracene	30.7J	J,S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Fluoranthene	144	S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Fluorene	ND	ND,S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Indeno(1,2,3-cd)pyrene	133	S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Naphthalene	28.8J	J,S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Phenanthrene	107	S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A
Pyrene	191	S12	ug/kg	78.2	26.6	SW846 8270D	1	09/28/2022 12:03	GEC	A



Results

Client Sample ID	Hyde Park 4B	Collected	09/25/2022 09:15
Lab Sample ID	3265649008	Lab Receipt	09/27/2022 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
<i>SURROGATES</i>										
Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
2,4,6-Tribromophenol	118-79-6			57.4%		19 – 132		09/28/2022 12:03		
2-Fluorobiphenyl	321-60-8			55.5%		40 – 110		09/28/2022 12:03		
2-Fluorophenol	367-12-4			56.6%		26 – 116		09/28/2022 12:03		
Nitrobenzene-d5	4165-60-0			55.1%		38 – 112		09/28/2022 12:03		
Phenol-d5	4165-62-2			58.6%		35 – 111		09/28/2022 12:03		
Terphenyl-d14	98904-43-9			62.4%		45 – 126		09/28/2022 12:03		

Sub'd-CASH Labs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dioxin	See attached	1,S12	ug/L			EPA 1613B	1	11/11/2022 15:36	SUB	F

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Benzene	ND	ND,S12	ug/kg	3.3	0.83	SW846 8260C	1	09/30/2022 02:13	VLM	C
Ethylbenzene	ND	ND,S12	ug/kg	3.3	1.1	SW846 8260C	1	09/30/2022 02:13	VLM	C
Toluene	ND	ND,S12	ug/kg	3.3	1.1	SW846 8260C	1	09/30/2022 02:13	VLM	C
Total Xylenes	ND	ND,S12	ug/kg	9.9	2.3	SW846 8260C	1	09/30/2022 02:13	VLM	C

SURROGATES

Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
1,2-Dichloroethane-d4	17060-07-0			92.7%		56 – 124		09/30/2022 02:13		
4-Bromofluorobenzene	460-00-4			105%		51 – 128		09/30/2022 02:13		
Dibromofluoromethane	1868-53-7			99.1%		62 – 123		09/30/2022 02:13		
Toluene-d8	2037-26-5			93.3%		59 – 131		09/30/2022 02:13		

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	40.8	S12	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A
Total Solids	59.2	S12	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A



Results

Client Sample ID	Hyde Park 5A	Collected	09/25/2022 10:40
Lab Sample ID	3265649009	Lab Receipt	09/27/2022 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Arsenic, Total	19.2	S13,S14	mg/kg	3.3	1.1	SW846 6010D	1	10/19/2022 14:09	A1S	A1
Cadmium, Total	0.65J	J,S13,S14	mg/kg	0.84	0.28	SW846 6010D	1	10/19/2022 14:09	A1S	A1
Copper, Total	46.7	S13,S14	mg/kg	3.3	1.1	SW846 6010D	1	10/19/2022 14:09	A1S	A1
Lead, Total	67.8	S13,S14	mg/kg	3.3	1.1	SW846 6010D	1	10/19/2022 14:09	A1S	A1
Mercury, Total	0.75	S13,S14	mg/kg	0.083	0.026	SW846 7471B	1	10/10/2022 14:57	WDA	A

PESTICIDES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4,4'-DDD	ND	ND,2,S13,S14	ug/kg	14.6	9.4	SW846 8081B	5	10/06/2022 00:54	KJH	A
4,4'-DDE	ND	ND,3,S13,S14	ug/kg	14.6	4.7	SW846 8081B	5	10/06/2022 00:54	KJH	A
4,4'-DDT	ND	ND,4,S13,S14	ug/kg	14.6	4.2	SW846 8081B	5	10/06/2022 00:54	KJH	A
Chlordane	ND	ND,S13,S14	ug/kg	300	50.6	SW846 8081B	5	10/06/2022 00:54	KJH	A
Dieldrin	ND	ND,5,S13,S14	ug/kg	14.6	5.7	SW846 8081B	5	10/06/2022 00:54	KJH	A
Mirex	ND	ND,S13,S14	ug/kg	14.6	4.5	SW846 8081B	5	10/06/2022 00:54	KJH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	51%	30 - 135	10/06/2022 00:54	
Tetrachloro-m-xylene	877-09-8	50.7%	30 - 111	10/06/2022 00:54	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acenaphthene	ND	ND,S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Acenaphthylene	39.3J	J,S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Anthracene	65.3J	J,S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Benzo(a)anthracene	170	S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Benzo(a)pyrene	241	S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Benzo(b)fluoranthene	129	S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Benzo(g,h,i)perylene	130	S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Benzo(k)fluoranthene	132	S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Chrysene	200	S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Dibenzo(a,h)anthracene	33.8J	J,S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Fluoranthene	184	S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Fluorene	ND	ND,S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Indeno(1,2,3-cd)pyrene	137	S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Naphthalene	31.4J	J,S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Phenanthrene	129	S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A
Pyrene	219	S13,S14	ug/kg	79.1	26.9	SW846 8270D	1	09/28/2022 12:28	GEC	A



Results

Client Sample ID	Hyde Park 5A	Collected	09/25/2022 10:40
Lab Sample ID	3265649009	Lab Receipt	09/27/2022 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
<i>SURROGATES</i>										
Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
2,4,6-Tribromophenol	118-79-6			58.9%		19 – 132		09/28/2022 12:28		
2-Fluorobiphenyl	321-60-8			57.1%		40 – 110		09/28/2022 12:28		
2-Fluorophenol	367-12-4			56.3%		26 – 116		09/28/2022 12:28		
Nitrobenzene-d5	4165-60-0			55.7%		38 – 112		09/28/2022 12:28		
Phenol-d5	4165-62-2			57.8%		35 – 111		09/28/2022 12:28		
Terphenyl-d14	98904-43-9			64.3%		45 – 126		09/28/2022 12:28		

Sub'd-CASH Labs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dioxin	See attached	1,S13,S14	ug/L			EPA 1613B	1	11/11/2022 15:37	SUB	C

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Benzene	ND	ND,S13,S14	ug/kg	3.3	0.84	SW846 8260C	1	09/30/2022 07:29	VLM	A2
Ethylbenzene	ND	ND,S13,S14	ug/kg	3.3	1.1	SW846 8260C	1	09/30/2022 07:29	VLM	A2
Toluene	ND	ND,S13,S14	ug/kg	3.3	1.1	SW846 8260C	1	09/30/2022 07:29	VLM	A2
Total Xylenes	ND	ND,S13,S14	ug/kg	10.0	2.3	SW846 8260C	1	09/30/2022 07:29	VLM	A2

SURROGATES

Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
1,2-Dichloroethane-d4	17060-07-0			91.7%		56 – 124		09/30/2022 07:29		
4-Bromofluorobenzene	460-00-4			101%		51 – 128		09/30/2022 07:29		
Dibromofluoromethane	1868-53-7			101%		62 – 123		09/30/2022 07:29		
Toluene-d8	2037-26-5			94.5%		59 – 131		09/30/2022 07:29		

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	43.6	S13,S14	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A
Total Solids	56.4	S13,S14	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A



Results

Client Sample ID	Hyde Park 5B	Collected	09/25/2022 10:50
Lab Sample ID	3265649010	Lab Receipt	09/27/2022 09:04

METALS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Arsenic, Total	49.6	S15	mg/kg	3.1	1.0	SW846 6010D	1	10/19/2022 14:10	A1S	A1
Cadmium, Total	0.59J	J,S15	mg/kg	0.78	0.26	SW846 6010D	1	10/19/2022 14:10	A1S	A1
Copper, Total	41.6	S15	mg/kg	3.1	1.0	SW846 6010D	1	10/19/2022 14:10	A1S	A1
Lead, Total	63.4	S15	mg/kg	3.1	1.0	SW846 6010D	1	10/19/2022 14:10	A1S	A1
Mercury, Total	0.52	S15	mg/kg	0.076	0.024	SW846 7471B	1	10/10/2022 14:59	WDA	A

PESTICIDES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
4,4'-DDD	ND	ND,2,S15	ug/kg	13.9	9.0	SW846 8081B	5	10/06/2022 01:05	KJH	A
4,4'-DDE	ND	ND,3,S15	ug/kg	13.9	4.5	SW846 8081B	5	10/06/2022 01:05	KJH	A
4,4'-DDT	ND	ND,4,S15	ug/kg	13.9	4.0	SW846 8081B	5	10/06/2022 01:05	KJH	A
Chlordane	ND	ND,S15	ug/kg	286	48.3	SW846 8081B	5	10/06/2022 01:05	KJH	A
Dieldrin	ND	ND,5,S15	ug/kg	13.9	5.4	SW846 8081B	5	10/06/2022 01:05	KJH	A
Mirex	ND	ND,S15	ug/kg	13.9	4.3	SW846 8081B	5	10/06/2022 01:05	KJH	A

SURROGATES

Compound	CAS No	Recovery	Limits(%)	Analysis Date/Time	Qualifiers
Decachlorobiphenyl	2051-24-3	49.2%	30 - 135	10/06/2022 01:05	
Tetrachloro-m-xylene	877-09-8	48.7%	30 - 111	10/06/2022 01:05	

SEMIVOLATILES

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Acenaphthene	ND	ND,S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Acenaphthylene	ND	ND,S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Anthracene	37.3J	J,S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Benzo(a)anthracene	75.8J	J,S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Benzo(a)pyrene	99.7	S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Benzo(b)fluoranthene	62.8J	J,S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Benzo(g,h,i)perylene	59.7J	J,S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Benzo(k)fluoranthene	48.7J	J,S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Chrysene	86.1	S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Dibenzo(a,h)anthracene	ND	ND,S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Fluoranthene	91.5	S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Fluorene	ND	ND,S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Indeno(1,2,3-cd)pyrene	59.4J	J,S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Naphthalene	ND	ND,S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Phenanthrene	74.3J	J,S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A
Pyrene	118	S15	ug/kg	79.8	27.1	SW846 8270D	1	09/28/2022 12:53	GEC	A



Results

Client Sample ID	Hyde Park 5B	Collected	09/25/2022 10:50
Lab Sample ID	3265649010	Lab Receipt	09/27/2022 09:04

SEMIVOLATILES (cont.)

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
<i>SURROGATES</i>										
Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
2,4,6-Tribromophenol	118-79-6			42.9%		19 – 132		09/28/2022 12:53		
2-Fluorobiphenyl	321-60-8			41%		40 – 110		09/28/2022 12:53		
2-Fluorophenol	367-12-4			42.8%		26 – 116		09/28/2022 12:53		
Nitrobenzene-d5	4165-60-0			40.3%		38 – 112		09/28/2022 12:53		
Phenol-d5	4165-62-2			44.1%		35 – 111		09/28/2022 12:53		
Terphenyl-d14	98904-43-9			48%		45 – 126		09/28/2022 12:53		

Sub'd-CASH Labs

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Dioxin	See attached	1,S15	ug/L			EPA 1613B	1	11/11/2022 15:37	SUB	F

VOLATILE ORGANICS

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Benzene	ND	ND,S15	ug/kg	3.4	0.86	SW846 8260C	1	09/30/2022 02:37	VLM	C
Ethylbenzene	ND	ND,S15	ug/kg	3.4	1.2	SW846 8260C	1	09/30/2022 02:37	VLM	C
Toluene	ND	ND,S15	ug/kg	3.4	1.1	SW846 8260C	1	09/30/2022 02:37	VLM	C
Total Xylenes	ND	ND,S15	ug/kg	10.3	2.4	SW846 8260C	1	09/30/2022 02:37	VLM	C

SURROGATES

Compound	CAS No			Recovery		Limits(%)		Analysis Date/Time		Qualifiers
1,2-Dichloroethane-d4	17060-07-0			90.1%		56 – 124		09/30/2022 02:37		
4-Bromofluorobenzene	460-00-4			102%		51 – 128		09/30/2022 02:37		
Dibromofluoromethane	1868-53-7			99.5%		62 – 123		09/30/2022 02:37		
Toluene-d8	2037-26-5			93.7%		59 – 131		09/30/2022 02:37		

WET CHEMISTRY

Compound	Result	Flag	Units	RDL	MDL	Method	Dilution	Analysis Date/Time	By	Cntr
Moisture	40.9	S15	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A
Total Solids	59.1	S15	%	0.1	0.01	S2540G-11	1	09/28/2022 12:25	NXL	A



Sample - Method Cross Reference Table

Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3265649001	Hyde Park 1A	EPA 1613B	N/A	
		SW846 6010D	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8081B	SW846 3546	
		SW846 8270D	SW846 3546	
		SW846 8260C	SW846 5035A	
		S2540G-11	N/A	
3265649002	Hyde Park 1B	EPA 1613B	N/A	
		SW846 6010D	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8081B	SW846 3546	
		SW846 8270D	SW846 3546	
		SW846 8260C	SW846 5035A	
		S2540G-11	N/A	
3265649003	Hyde Park 2A	EPA 1613B	N/A	
		SW846 6010D	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8081B	SW846 3546	
		SW846 8270D	SW846 3546	
		SW846 8260C	SW846 5035A	
		S2540G-11	N/A	
3265649004	Hyde Park 2B	EPA 1613B	N/A	
		SW846 6010D	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8081B	SW846 3546	
		SW846 8270D	SW846 3546	
		SW846 8260C	SW846 5035A	
		S2540G-11	N/A	
3265649005	Hyde Park 3A	EPA 1613B	N/A	
		SW846 6010D	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8081B	SW846 3546	
		SW846 8270D	SW846 3546	
		SW846 8260C	SW846 5035A	
		S2540G-11	N/A	
3265649006	Hyde Park 3B	EPA 1613B	N/A	
		SW846 6010D	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8081B	SW846 3546	
		SW846 8270D	SW846 3546	
		SW846 8260C	SW846 5035A	
		S2540G-11	N/A	
3265649007	Hyde Park 4A	EPA 1613B	N/A	
		SW846 6010D	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8081B	SW846 3546	
		SW846 8270D	SW846 3546	
		SW846 8260C	SW846 5035A	
		S2540G-11	N/A	



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Lab ID	Sample ID	Analysis Method	Preparation Method	Leachate Method
3265649008	Hyde Park 4B	EPA 1613B	N/A	
		SW846 6010D	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8081B	SW846 3546	
		SW846 8270D	SW846 3546	
		SW846 8260C	SW846 5035A	
		S2540G-11	N/A	
3265649009	Hyde Park 5A	EPA 1613B	N/A	
		SW846 6010D	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8081B	SW846 3546	
		SW846 8270D	SW846 3546	
		SW846 8260C	SW846 5035A	
		S2540G-11	N/A	
3265649010	Hyde Park 5B	EPA 1613B	N/A	
		SW846 6010D	SW846 3051A	
		SW846 7471B	SW846 7471B	
		SW846 8081B	SW846 3546	
		SW846 8270D	SW846 3546	
		SW846 8260C	SW846 5035A	
		S2540G-11	N/A	



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3265649001	Hyde Park 1A	N/A	N/A	N/A		EPA 1613B	
		SW846 3051A	884489	09/29/2022 01:32	ANN	SW846 6010D	891358
		SW846 7471B	889077	10/10/2022 10:05	WDA	SW846 7471B	889249
		SW846 3546	884461	09/27/2022 18:30	RXS	SW846 8081B	885096
		SW846 3546	884458	09/27/2022 18:20	J1H	SW846 8270D	884648
		SW846 5035A	885252	09/24/2022 09:17	PDK	SW846 8260C	885253
3265649002	Hyde Park 1B	N/A	N/A	N/A		EPA 1613B	
		SW846 3051A	884489	09/29/2022 01:32	ANN	SW846 6010D	891358
		SW846 7471B	889077	10/10/2022 10:05	WDA	SW846 7471B	889249
		SW846 3546	884461	09/27/2022 18:30	RXS	SW846 8081B	885096
		SW846 3546	884458	09/27/2022 18:20	J1H	SW846 8270D	884648
		SW846 5035A	885252	09/24/2022 09:18	PDK	SW846 8260C	885253
3265649003	Hyde Park 2A	N/A	N/A	N/A		EPA 1613B	
		SW846 3051A	884489	09/29/2022 01:32	ANN	SW846 6010D	891358
		SW846 7471B	889077	10/10/2022 10:05	WDA	SW846 7471B	889249
		SW846 3546	884461	09/27/2022 18:30	RXS	SW846 8081B	885096
		SW846 3546	884458	09/27/2022 18:20	J1H	SW846 8270D	884648
		SW846 5035A	885252	09/24/2022 09:21	PDK	SW846 8260C	885253
3265649004	Hyde Park 2B	N/A	N/A	N/A		EPA 1613B	
		SW846 3051A	884489	09/29/2022 01:32	ANN	SW846 6010D	891358
		SW846 7471B	889077	10/10/2022 10:05	WDA	SW846 7471B	889249
		SW846 3546	884461	09/27/2022 18:30	RXS	SW846 8081B	885096
		SW846 3546	884458	09/27/2022 18:20	J1H	SW846 8270D	884648
		SW846 5035A	885252	09/24/2022 09:23	PDK	SW846 8260C	885253
3265649005	Hyde Park 3A	N/A	N/A	N/A		EPA 1613B	
		SW846 3051A	884489	09/29/2022 01:32	ANN	SW846 6010D	891358
		SW846 7471B	889077	10/10/2022 10:05	WDA	SW846 7471B	889249
		SW846 3546	884461	09/27/2022 18:30	RXS	SW846 8081B	885096
		SW846 3546	884458	09/27/2022 18:20	J1H	SW846 8270D	884648
		SW846 5035A	885252	09/25/2022 09:55	PDK	SW846 8260C	885253
3265649006	Hyde Park 3B	N/A	N/A	N/A		EPA 1613B	
		SW846 3051A	884489	09/29/2022 01:32	ANN	SW846 6010D	891358
		SW846 7471B	889077	10/10/2022 10:05	WDA	SW846 7471B	889249
		SW846 3546	884461	09/27/2022 18:30	RXS	SW846 8081B	885096
		SW846 3546	884458	09/27/2022 18:20	J1H	SW846 8270D	884648
		SW846 5035A	885252	09/25/2022 10:05	PDK	SW846 8260C	885253
3265649007	Hyde Park 4A	N/A	N/A	N/A		EPA 1613B	
		SW846 3051A	884489	09/29/2022 01:32	ANN	SW846 6010D	891358
		SW846 7471B	889077	10/10/2022 10:05	WDA	SW846 7471B	889249
		SW846 3546	884461	09/27/2022 18:30	RXS	SW846 8081B	885096
		SW846 3546	884458	09/27/2022 18:20	J1H	SW846 8270D	884648
		SW846 5035A	885252	09/25/2022 09:05	PDK	SW846 8260C	885253
3265649008	Hyde Park 4B	N/A	N/A	N/A		EPA 1613B	
		SW846 3051A	886779	10/05/2022 14:00	JSE	SW846 6010D	891527
		SW846 7471B	889077	10/10/2022 10:05	WDA	SW846 7471B	889249
		SW846 3546	884461	09/27/2022 18:30	RXS	SW846 8081B	885096
		SW846 3546	884458	09/27/2022 18:20	J1H	SW846 8270D	884648
		SW846 5035A	885252	09/25/2022 09:15	PDK	SW846 8260C	885253
		N/A	N/A	N/A		S2540G-11	884587



Project 2022-2022-12-003 CHPE Hudson 7
Workorder 3265649

Lab ID	Sample ID	Preparation Method	Prep Batch	Prep Date/Time	By	Analysis Method	Anly Batch
3265649009	Hyde Park 5A	N/A	N/A	N/A		EPA 1613B	
		SW846 3051A	886779	10/05/2022 14:00	JSE	SW846 6010D	891527
		SW846 7471B	889077	10/10/2022 10:05	WDA	SW846 7471B	889249
		SW846 3546	884461	09/27/2022 18:30	RXS	SW846 8081B	885096
		SW846 3546	884458	09/27/2022 18:20	J1H	SW846 8270D	884648
		SW846 5035A	885252	09/24/2022 09:26	PDK	SW846 8260C	885253
		N/A	N/A	N/A		S2540G-11	884587
3265649010	Hyde Park 5B	N/A	N/A	N/A		EPA 1613B	
		SW846 3051A	886779	10/05/2022 14:00	JSE	SW846 6010D	891527
		SW846 7471B	889077	10/10/2022 10:05	WDA	SW846 7471B	889249
		SW846 3546	884461	09/27/2022 18:30	RXS	SW846 8081B	885096
		SW846 3546	884458	09/27/2022 18:20	J1H	SW846 8270D	884648
		SW846 5035A	885252	09/25/2022 10:50	PDK	SW846 8260C	885253
		N/A	N/A	N/A		S2540G-11	884587

11/11/2022 4:18 PM



301 Fulling Mill Rd, Suite A
Middletown, PA 17057
P. 717-944-5541

CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:

ALS Quote #:

3265649

Logged By: KSB
PM: SSL



of

Client Name: Normandean			Container Type: VOA GL GL GL				Temp Taken By: BLP Therm ID: 570 WO Temp (°C) 0°			
Address: 400 Old Reading Pike Stowe, PA 19464			Container Size: 16oz 16oz 8oz				Receipt Info completed by: _____ WV Containers 0-6°C Y N NA			
Contact: DON NAZARIO			Preservative: MeOH				Cooler Custody Seals Intact Y N NA			
Phone#: 717-617-7076			ANALYSES/METHOD REQUESTED				Sample Custody Seal Intact Y N NA			
Project Name#: CHPE Hudson River			*G or C **Matrix (See bottom of COC) VOCS, 90 most PAHs, Metals, Pest Dioxins VOCS, 90 most				Received on Ice Y N NA			
Bill To: Normandean							Coolers & Samples Intact Y N		Deviations? NO YES	
Purchase Order #: 24711.001							Correct Containers Provided Y N		If YES, list below:	
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges.							Sample Label/COC Agree Y N		Client contact:	
Date Required: _____ Approved?							Adequate Sample Volumes Y N		Date/Tech: _____	
Email? <input checked="" type="checkbox"/> Y DNAZARIO@Normandean.com			VOA only: Headspace Present Y N NA		New Source? Y N					
Sample Description/Location (as it will appear on the lab report)			Date Collected (mm/dd/yy)		Time (hh:mm)		SDWA State of Origin? _____			
Enter Number of Containers Per Sample or Field Results Below.			SDWA Sample Type (see key)		*G or C		**Matrix (See bottom of COC)			
1	Hyde Park 1A	9/25/22	1230	G	SW	1	1	1		
2	1B		1240			1	1	1		
3	2A		1140			1	1	1		
4	2B		1145			1	1	1		
5	3A		0955			4	1	1		
6	3B		1005			4	1	1		
7	4A		0905			4	1	1		
8	4B		0915			4	1	1		
9	5A		1040			1	1	1		
10	5B		1050			4	1	1		
Circle Sample Collector: ALS Tech / Client			Comments:						PWSID # _____	
Date: _____ Time: _____			Relinquished By / Company Name: Don Nazario / Normandean						PWS Contact: _____ PWS Phone #: _____	
Date: 9/26/22 Time: 1530			Received By / Company Name: FEOLIX						SDWA Sample Type Key: D=Distribution E=Entry Point R=Raw P=Plant C=Check S=Special A=Annual Startup	
Date: 9/27/22 Time: 9:04			Received By / Company Name: FEOLIX						Sample/COC Remarks: -NO SAMPLER 9/27/22 BLP	
Date: _____ Time: _____			Received By / Company Name: _____						Contains Short Hold Testing YES NO	
Date: _____ Time: _____			Received By / Company Name: _____						Internal Use: If less than 48 hours - notify lab upon receipt	
Date: _____ Time: _____			Received By / Company Name: _____						Data Deliverables: <input type="checkbox"/> Standard Lvl 1 <input type="checkbox"/> CLP-like <input type="checkbox"/> HSCA	
Date: _____ Time: _____			Received By / Company Name: _____						<input type="checkbox"/> Standard Lvl 2 <input type="checkbox"/> DOD <input type="checkbox"/> Landfill	
Date: _____ Time: _____			Received By / Company Name: _____						<input type="checkbox"/> Standard Lvl 3 <input type="checkbox"/> NJ RED <input type="checkbox"/> NJ GW	
Date: _____ Time: _____			Received By / Company Name: _____						<input type="checkbox"/> Standard Lvl 4 <input type="checkbox"/> NJ Full <input type="checkbox"/>	
Date: _____ Time: _____			Received By / Company Name: _____						State Samples Collected In: <input type="checkbox"/> NY	
Date: _____ Time: _____			Received By / Company Name: _____						<input type="checkbox"/> NJ	
Date: _____ Time: _____			Received By / Company Name: _____						<input type="checkbox"/> PA	
Date: _____ Time: _____			Received By / Company Name: _____						<input type="checkbox"/> WV	
Date: _____ Time: _____			Received By / Company Name: _____						<input type="checkbox"/> FL	
Date: _____ Time: _____			Received By / Company Name: _____						other _____	

*G=Grab, C=Composite **Matrix - A=Air, D=Drinking Water, GW=Groundwater, O=Oil, LW=Liquid Waste, S=Solid/Soil/Sludge, SW=Surface Water, WP=Wipe, WW=Wastewater

ALS SHIPPING ADDRESS: 301 Fulling Mill Road, Suite A, Middletown, PA 17057

40 of 121



November 11, 2022

Service Request No:E2200952

Sarah Leung
ALS Environmental - Middletown
301 Fulling Mill Road
Middletown, PA 17057

Laboratory Results for: 3265649

Dear Sarah,

Enclosed are the results of the sample(s) submitted to our laboratory October 01, 2022
For your reference, these analyses have been assigned our service request number **E2200952**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental



Certificate of Analysis

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request No.: E2200952
Date Received: 10/01/22

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Ten samples were received for analysis at ALS Environmental in Houston on 10/01/22.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2200456: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

B flags – Method Blanks

The Method Blank EQ2200456-01 contained low levels of target compounds below the Method Reporting Limit (MRL).

One compound, OCDD, was above the MRL (CRQL). ALS/Houston follows the *EPA National Functional Guidelines for CDDs and CDFs, September 2005*, which states on page 31, “The concentration of OCDD/OCDF in the method blank must be <3x the CRQL (MRL).”

The associated compounds in the samples are flagged with ‘B’ flags where the sample result is less than ten times the level detected in the method blank.

2378-TCDF

Samples analyzed on the DB-5MSUI column were analyzed under conditions where sufficient separation between 2,3,7,8-TCDF and its closest eluter was achieved. Confirmation of this result was not required.

Y flags – Labeled Standards

Quantification of the native 2,3,7,8-substituted congeners is based on isotopic dilution, which automatically corrects for variation in extraction efficiency and provides accurate values even with poor recovery. Samples that had recoveries of labeled standards outside the acceptance limits are qualified with ‘Y’ flags on the Labeled Compound summary pages. In all cases, the signal-to-noise ratios are greater than 10:1 and detection limits were below the Method Reporting Limits.

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'
-

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - Middletown
Project: 3265649

Service Request:E2200952

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E2200952-001	3265649-001 (Hyde Park 1A)	9/25/2022	1230
E2200952-002	3265649-002 (Hyde Park 1B)	9/25/2022	1240
E2200952-003	3265649-003 (Hyde Park 2A)	9/25/2022	1140
E2200952-004	3265649-004 (Hyde Park 2B)	9/25/2022	1145
E2200952-005	3265649-005 (Hyde Park 3A)	9/25/2022	0955
E2200952-006	3265649-006 (Hyde Park 3B)	9/25/2022	1005
E2200952-007	3265649-007 (Hyde Park 4A)	9/25/2022	0905
E2200952-008	3265649-008 (Hyde Park 4B)	9/25/2022	0915
E2200952-009	3265649-009 (Hyde Park 5A)	9/25/2022	1040
E2200952-010	3265649-010 (Hyde Park 5B)	9/25/2022	1050

Service Request Summary

Folder #: E2200952
Client Name: ALS Environmental - Middletown
Project Name: 3265649
Project Number:

Report To: Sarah Leung
 ALS Environmental - Middletown
 301 Fulling Mill Road
 Middletown, PA 17057
 USA
Phone Number: 717-944-5541
Cell Number:
Fax Number:
E-mail: sarah.leung@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 10/01/22
Internal Due Date: 11/7/2022
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: 3265649
EDD: BASIC_WQC_CASNo

10 8 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved
Location: EHRMS-WIC 2C
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON	
				PCDD PCDF/8290A	Total Solids/ALS SOP
E2200952-001	3265649-001 (Hyde Park 1A)	Soil	09/25/22 1230		
E2200952-002	3265649-002 (Hyde Park 1B)	Soil	09/25/22 1240		
E2200952-003	3265649-003 (Hyde Park 2A)	Soil	09/25/22 1140		
E2200952-004	3265649-004 (Hyde Park 2B)	Soil	09/25/22 1145		
E2200952-005	3265649-005 (Hyde Park 3A)	Soil	09/25/22 0955		
E2200952-006	3265649-006 (Hyde Park 3B)	Soil	09/25/22 1005		
E2200952-007	3265649-007 (Hyde Park 4A)	Soil	09/25/22 0905		
E2200952-008	3265649-008 (Hyde Park 4B)	Soil	09/25/22 0915		
E2200952-009	3265649-009 (Hyde Park 5A)	Soil	09/25/22 1040		
E2200952-010	3265649-010 (Hyde Park 5B)	Soil	09/25/22 1050		

Service Request Summary

Folder #: E2200952
Client Name: ALS Environmental - Middletown
Project Name: 3265649
Project Number:
Report To: Sarah Leung
ALS Environmental - Middletown
301 Fulling Mill Road
Middletown, PA 17057
USA
Phone Number: 717-944-5541
Cell Number:
Fax Number:
E-mail: sarah.leung@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 10/01/22
Internal Due Date: 11/7/2022
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: 3265649
EDD: BASIC_WQC_CASNo

10 8 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved
Location: EHRMS-WIC 2C
Pressure Gas:

Data Qualifiers

HRMS Qualifier Set

- B Indicates the associated analyte was found in the method blank at >1/10th the reported value.
- E Estimated value. The reported concentration is above the calibration range of the instrument.
- H Sample extracted and/or analyzed out of suggested holding time.
- J Estimated value. The reported concentration is below the MRL.
- K The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits. The concentration of this analyte should be considered as an estimate.
- P Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
- Q Monitored lock-mass indicates matrix-interference. Reported result is estimated.
- S Signal saturated detector. Result reported from dilution.
- U Compound was analyzed for, but was not detected (ND).
- X See Case Narrative.
- Y Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-noise ratios are greater than 10:1, making the recoveries acceptable.
 - i The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCEntration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
Arkansas Department of Environmental Quality	22-041-0	3/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028	12/31/2022
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Department of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2228443	12/31/2022
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Conservation	04016-2022	4/30/2023
Texas Commission on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Health	C819-2022	11/14/2022

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID

E22-00952

DB-5MSUI

SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	10/25/22	Analyst:	Jc	Samples:	001

Second Level - Data Review – to be filled by person doing peer review

Date:	10/26/22	Analyst:	sl	Samples:	009

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E7200952

DB-5MSUI

SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date: 11/11/22 Analyst: [Signature] Samples: 002-010

Second Level - Data Review – to be filled by person doing peer review

Date: 11/11/22 Analyst: [Signature] Samples: 002-010



Chain of Custody

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com



301 Fulling Mill Road
 Middletown, PA 17057
 P. 717-944-5541
 F. 717-944-1430

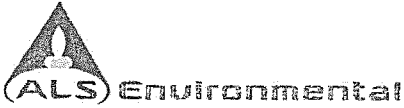
**CHAIN OF CUSTODY/
 REQUEST FOR ANALYSIS**

**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT/
 SAMPLER. INSTRUCTIONS ON THE BACK.**

COC #:	1
ALS Quote #:	of 1

Client Name: ALS			Container Type	G											Receipt Information (completed by Receiving Lab)		
Address: 301 Fulling Mill Road Middletown PA 17057			Container Size	8oz											W.O. Temp: <u>36</u> Therm ID: <u>1021</u>		
Contact: Sarah Leung			Perservative	None											Courier/Tracking #:		
Phone#: (717) 702-2248			ANALYSES/METHOD REQUESTED DIOXIN METHOD 8290 Enter Number of Containers Per Sample or Field Results Below.										Purchase Order #: 3265649				
Project Name#: 3265649													Project Comments:				
Bill To:													Subcontract: ALS Houston				
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALS approval and surcharges. Date Required: _____ Approved? _____ Email? <input checked="" type="checkbox"/> -Y namdt.subcontract@alsglobal.com Fax? <input type="checkbox"/> -Y No.: _____													ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment Other: _____				
Sample Description/Location <small>(as it will appear on the lab report)</small>		Date Collected mm/dd/yy	Time hh:mm	*G or C	**Matrix											Sample/COC Comments	
1	3265649001 (Hyde Park 1A)	9/25/22	1230	G S	1												
2	3265649002 (Hyde Park 1B)	9/25/22	1240	G S	1												
3	3265649003 (Hyde Park 2A)	9/25/22	1140	G S	1												
4	3265649004 (Hyde Park 2B)	9/25/22	1145	G S	1												
5	3265649005 (Hyde Park 3A)	9/25/22	0955	G S	1												
6	3265649006 (Hyde Park 3B)	9/25/22	1005	G S	1												
7	3265649007 (Hyde Park 4A)	9/25/22	0905	G S	1												
8	3265649008 (Hyde Park 4B)	9/25/22	0915	G S	1												
9	3265649009 (Hyde Park 5A)	9/25/22	1040	G S	1												
10	3265649010 (Hyde Park 5B)	9/25/22	1050	G S	1												
SAMPLED BY (Please Print):			Sampler Comments:										Data Deliverables: <input type="checkbox"/> Standard <input type="checkbox"/> CLP-like <input type="checkbox"/> USACE/DOD <input checked="" type="checkbox"/> Level 2				
Relinquished By / Company Name			Date	Time	Received By / Company Name			Date	Time	Special Processing: USACE <input type="checkbox"/> Navy <input type="checkbox"/>		State Samples Collected In: <input checked="" type="checkbox"/> NY <input type="checkbox"/> NJ <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/> MD					
1 <i>[Signature]</i>			9/25/22	1040	2 <i>[Signature]</i>			10/11/22	0940	Reportable to PADEP? Yes <input type="checkbox"/> No <input type="checkbox"/>		Sample Disposal: Lab <input type="checkbox"/> Special <input type="checkbox"/>					
3					4					PWSID # _____		other _____					
5					6					EDDS: Format Type- Excel							
7					8												
9					10												

* G=Grab; C=Composite **Matrix - AI=Air; DW=Drinking Water; GW=Groundwater; OL=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater



Cooler Receipt Form

Project Chemist JL

Client/Project ALS-MT Thermometer ID 1211

Date/Time Received: 10/11/22 Initials: CA Date/Time Logged in: 10/11/22 Initials CA

1. Method of delivery: US Mail Fed Ex UPS DHL Courier Client

2. Samples received in: Cooler Box Envelope Other

3. Were custody seals on coolers? Yes No
 Were they intact? Yes No N/A
 Were they signed and dated? Yes No N/A
 If yes, how many and where?

4. Packing Material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other

5. Foreign or Regulated Soil? Yes No Location of Sampling: _____

Cooler Tracking Number	COCID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
5857 1123 6072		10/11/22	0940	CA	3.6	<input checked="" type="checkbox"/>
5857 1123 6083		10/11/22	0940	CA	3.4	<input checked="" type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

6. Were custody papers properly filled out (ink, signed, dated, etc)? Yes No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? Yes No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? Yes No

9. Were appropriate bottles/containers and volumes received for the requested tests? Yes No

10. Did sample labels and tags agree with custody documents? Yes No

Notes, Discrepancies, & Resolutions:

Service request Label:



SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sample. The COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C.
- ✓ Air samples are shipped and stored cold, at 0 to 6°C
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report



Preparation Information Benchsheets

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 407879
Team: Semivoa GCMS/TWOODS

Prep WorkFlow: OrgExtDioxS(30)
Prep Method: Method

Status: Prepped
Prep Date/Time: 10/10/22 10:11

11/11/2022 4:18 PM

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2200857-014	AOI3-T3-O1-020	.01	8290A/PCDD PCDF			Soil	10.245g	brown Soil
2	E2200949-001	MI2A	.01	8290A/PCDD PCDF			Soil	10.247g	Brown Soil Mixed with rocks
3	E2200949-002	MI2BI	.01	8290A/PCDD PCDF			Soil	11.299g	Brown Soil Mixed with rocks
4	E2200949-003	MI2BII	.01	8290A/PCDD PCDF			Soil	10.101g	Brown Soil Mixed with rocks
5	E2200949-004	MI2BIII	.01	8290A/PCDD PCDF			Soil	10.224g	Brown Soil Mixed with rocks
6	E2200949-005	MI2C	.01	8290A/PCDD PCDF			Soil	10.056g	Brown Soil Mixed with rocks
7	E2200952-001	3265649-001 (Hyde Park 1A)	.01	8290A/PCDD PCDF			Soil	10.355g	
8	E2200952-002	3265649-002 (Hyde Park 1B)	.01	8290A/PCDD PCDF			Soil	10.263g	
9	E2200952-003	3265649-003 (Hyde Park 2A)	.01	8290A/PCDD PCDF			Soil	10.029g	
10	E2200952-004	3265649-004 (Hyde Park 2B)	.01	8290A/PCDD PCDF			Soil	10.044g	
11	E2200952-005	3265649-005 (Hyde Park 3A)	.01	8290A/PCDD PCDF			Soil	10.205g	
12	E2200952-006	3265649-006 (Hyde Park 3B)	.01	8290A/PCDD PCDF			Soil	10.249g	
13	E2200952-007	3265649-007 (Hyde Park 4A)	.01	8290A/PCDD PCDF			Soil	10.282g	
14	E2200952-008	3265649-008 (Hyde Park 4B)	.01	8290A/PCDD PCDF			Soil	10.215g	
15	E2200952-009	3265649-009 (Hyde Park 5A)	.01	8290A/PCDD PCDF			Soil	10.221g	
16	E2200952-010	3265649-010 (Hyde Park 5B)	.01	8290A/PCDD PCDF			Soil	10.159g	
17	EQ2200456-01	MB		8290A/PCDD PCDF			Solid	10.192g	
18	EQ2200456-02	LCS		8290A/PCDD PCDF			Solid	10.178g	
19	EQ2200456-03	DLCS		8290A/PCDD PCDF			Solid	10.175g	

Spiking Solutions

Name: 1613B Matrix Working Standard	Inventory ID: 225221	Logbook Ref: NB 09/30/2022 225221 ng/ml	Expires On: 03/29/2023
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EQ2200456-02 100.00µL EQ2200456-03 100.00µL

Name: 8290/1613B Cleanup Working Standard	Inventory ID: 225277	Logbook Ref: tw 10/04/22 225277	Expires On: 02/28/2023
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E2200857-014 100.00µL E2200949-001 100.00µL E2200949-002 100.00µL E2200949-003 100.00µL E2200949-004 100.00µL E2200949-005 100.00µL
 E2200952-001 100.00µL E2200952-002 100.00µL E2200952-003 100.00µL E2200952-004 100.00µL E2200952-005 100.00µL E2200952-006 100.00µL
 E2200952-007 100.00µL E2200952-008 100.00µL E2200952-009 100.00µL E2200952-010 100.00µL EQ2200456-01 100.00µL EQ2200456-02 100.00µL
 EQ2200456-03 100.00µL

Name: 1613B Labeled Working Standard	Inventory ID: 225378	Logbook Ref: tw 10/10/22 225378	Expires On: 03/26/2023
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E2200857-014 1,000.00µL E2200949-001 1,000.00µL E2200949-002 1,000.00µL E2200949-003 1,000.00µL E2200949-004 1,000.00µL E2200949-005 1,000.00µL
 E2200952-001 1,000.00µL E2200952-002 1,000.00µL E2200952-003 1,000.00µL E2200952-004 1,000.00µL E2200952-005 1,000.00µL E2200952-006 1,000.00µL
 E2200952-007 1,000.00µL E2200952-008 1,000.00µL E2200952-009 1,000.00µL E2200952-010 1,000.00µL EQ2200456-01 1,000.00µL EQ2200456-02 1,000.00µL

Preparation Information Benchsheet

Prep Run#: 407879
Team: Semivoa GCMS/TWOODS
EQ2200456-03 1,000.00µL

Prep Workflow: OrgExtDioxS(30)
Prep Method: Method

Status: Prepped
Prep Date/Time: 10/10/22 10:11

Preparation Steps

Step: Extraction	Step: Acid Clean	Step: Silica Gel Clean	Step: Final Volume
Started: 10/10/22 10:11	Started: 10/11/22 10:00	Started: 10/11/22 12:00	Started: 10/12/22 09:00
Finished: 10/11/22 09:00	Finished: 10/11/22 11:00	Finished: 10/11/22 15:00	Finished: 10/12/22 12:00
By: TWOODS	By: TWOODS	By: TWOODS	By: TWOODS
Comments	Comments	Comments	Comments

Comments: _____

Reviewed By: TW Date: 10/10/22

Chain of Custody

Relinquished By: _____	Date: _____	<u>Extracts Examined</u>
Received By: _____	Date: _____	Yes No



Analytical Results

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 12:30
Date Received: 10/01/22 09:40

Sample Name: 3265649-001 (Hyde Park 1A)
Lab Code: E2200952-001

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.355g

Data File Name: P539802
ICAL Date: 01/18/22

Date Analyzed: 10/22/22 08:01
Date Extracted: 10/10/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P539595
Cal Ver. File Name: P539794

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	0.788J		0.237	0.891	0.68	1.001	1
1,2,3,7,8-PeCDD	2.55JK		0.201	4.45	1.26	1.000	1
1,2,3,6,7,8-HxCDD	29.5		0.259	4.45	1.16	1.000	1
1,2,3,4,7,8-HxCDD	5.47		0.272	4.45	1.25	1.000	1
1,2,3,7,8,9-HxCDD	19.4		0.266	4.45	1.29	1.007	1
1,2,3,4,6,7,8-HpCDD	861		0.384	4.45	1.03	1.000	1
OCDD	6770		2.55	8.91	0.90	1.000	1
2,3,7,8-TCDF	13.5		0.345	0.891	0.65	1.001	1
1,2,3,7,8-PeCDF	3.14J		0.255	4.45	1.35	1.001	1
2,3,4,7,8-PeCDF	4.02J		0.169	4.45	1.34	1.001	1
1,2,3,6,7,8-HxCDF	4.20J		0.234	4.45	1.16	1.000	1
1,2,3,7,8,9-HxCDF	1.25J		0.229	4.45	1.20	1.000	1
1,2,3,4,7,8-HxCDF	5.45		0.216	4.45	1.12	1.000	1
2,3,4,6,7,8-HxCDF	3.77J		0.198	4.45	1.18	1.000	1
1,2,3,4,6,7,8-HpCDF	95.0		0.164	4.45	1.00	1.000	1
1,2,3,4,7,8,9-HpCDF	3.85JK		0.167	4.45	1.39	1.000	1
OCDF	210		0.369	8.91	0.86	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-001 (Hyde Park 1A)
Lab Code: E2200952-001

Service Request: E2200952
Date Collected: 09/25/22 12:30
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.355g
Data File Name: P539802
ICAL Date: 01/18/22

Date Analyzed: 10/22/22 08:01
Date Extracted: 10/10/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P539595
Cal Ver. File Name: P539794

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	11.5		0.237	0.891	0.70		1
Total Penta-Dioxins	31.2		0.201	4.45	1.62		1
Total Hexa-Dioxins	279		0.266	4.45	1.26		1
Total Hepta-Dioxins	1710		0.384	4.45	1.03		1
Total Tetra-Furans	228		0.345	0.891	0.69		1
Total Penta-Furans	45.2		0.112	4.45	1.55		1
Total Hexa-Furans	79.4		0.218	4.45	1.22		1
Total Hepta-Furans	260		0.165	4.45	1.00		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 12:30
Date Received: 10/01/22 09:40

Sample Name: 3265649-001 (Hyde Park 1A)
Lab Code: E2200952-001

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.355g

Date Analyzed: 10/22/22 08:01
Date Extracted: 10/10/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P539595
Cal Ver. File Name: P539794

Data File Name: P539802
ICAL Date: 01/18/22

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1606.457	80		40-135	0.80	1.023
13C-1,2,3,7,8-PeCDD	2000	1533.273	77		40-135	1.60	1.203
13C-1,2,3,4,7,8-HxCDD	2000	1162.140	58		40-135	1.27	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1150.907	58		40-135	1.24	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1153.531	58		40-135	1.06	1.066
13C-OCDD	4000	2033.231	51		40-135	0.88	1.138
13C-2,3,7,8-TCDF	2000	1378.744	69		40-135	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	1708.926	85		40-135	1.59	1.156
13C-2,3,4,7,8-PeCDF	2000	2633.988	132		40-135	1.58	1.192
13C-1,2,3,4,7,8-HxCDF	2000	1284.094	64		40-135	0.50	0.969
13C-1,2,3,6,7,8-HxCDF	2000	1126.294	56		40-135	0.51	0.972
13C-1,2,3,7,8,9-HxCDF	2000	1376.870	69		40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1454.933	73		40-135	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	995.733	50		40-135	0.43	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	1203.729	60		40-135	0.43	1.078
37Cl-2,3,7,8-TCDD	800	556.146	70		40-135	NA	1.024

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 12:30
Date Received: 10/01/22 09:40

Sample Name: 3265649-001 (Hyde Park 1A)
Lab Code: E2200952-001

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	0.788	0.237	0.891	1	1	0.788
1,2,3,7,8-PeCDD	2.55	0.201	4.45	1	1	2.55
1,2,3,6,7,8-HxCDD	29.5	0.259	4.45	1	0.1	2.95
1,2,3,4,7,8-HxCDD	5.47	0.272	4.45	1	0.1	0.547
1,2,3,7,8,9-HxCDD	19.4	0.266	4.45	1	0.1	1.94
1,2,3,4,6,7,8-HpCDD	861	0.384	4.45	1	0.01	8.61
OCDD	6770	2.55	8.91	1	0.0003	2.03
2,3,7,8-TCDF	13.5	0.345	0.891	1	0.1	1.35
1,2,3,7,8-PeCDF	3.14	0.255	4.45	1	0.03	0.0942
2,3,4,7,8-PeCDF	4.02	0.169	4.45	1	0.3	1.21
1,2,3,6,7,8-HxCDF	4.20	0.234	4.45	1	0.1	0.420
1,2,3,7,8,9-HxCDF	1.25	0.229	4.45	1	0.1	0.125
1,2,3,4,7,8-HxCDF	5.45	0.216	4.45	1	0.1	0.545
2,3,4,6,7,8-HxCDF	3.77	0.198	4.45	1	0.1	0.377
1,2,3,4,6,7,8-HpCDF	95.0	0.164	4.45	1	0.01	0.950
1,2,3,4,7,8,9-HpCDF	3.85	0.167	4.45	1	0.01	0.0385
OCDF	210	0.369	8.91	1	0.0003	0.0630
Total TEQ						24.6

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-001 (Hyde Park 1A)
Lab Code: E2200952-001

Service Request: E2200952
Date Collected: 09/25/22 12:30
Date Received: 10/01/22 09:40
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
6.1193g

Date Analyzed: 10/17/22 17:34
NA
E-Balance-01

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Solids	54.2		-	-			1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 12:40
Date Received: 10/01/22 09:40

Sample Name: 3265649-002 (Hyde Park 1B)
Lab Code: E2200952-002

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.263g

Data File Name: P539898
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 00:33
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.148	0.796			1
1,2,3,7,8-PeCDD	0.194JK		0.150	3.98	2.31	1.001	1
1,2,3,6,7,8-HxCDD	0.510J		0.0263	3.98	1.30	1.000	1
1,2,3,4,7,8-HxCDD	0.165JK		0.0281	3.98	0.64	1.000	1
1,2,3,7,8,9-HxCDD	0.340JK		0.0273	3.98	0.95	1.007	1
1,2,3,4,6,7,8-HpCDD	10.1		0.130	3.98	1.05	1.000	1
OCDD	173		1.67	7.96	0.91	1.000	1
2,3,7,8-TCDF	1.22		0.146	0.796	0.65	1.001	1
1,2,3,7,8-PeCDF	0.455J		0.152	3.98	1.38	1.001	1
2,3,4,7,8-PeCDF	0.241JK		0.0918	3.98	1.09	1.001	1
1,2,3,6,7,8-HxCDF	0.325J		0.0483	3.98	1.17	1.000	1
1,2,3,7,8,9-HxCDF	0.421JK		0.0540	3.98	0.81	1.000	1
1,2,3,4,7,8-HxCDF	0.443J		0.0475	3.98	1.36	1.001	1
2,3,4,6,7,8-HxCDF	0.323J		0.0406	3.98	1.06	1.001	1
1,2,3,4,6,7,8-HpCDF	1.53JK		0.0774	3.98	1.36	1.000	1
1,2,3,4,7,8,9-HpCDF	0.744J		0.0840	3.98	0.91	1.000	1
OCDF	7.89J		0.503	7.96	0.90	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-002 (Hyde Park 1B)
Lab Code: E2200952-002

Service Request: E2200952
Date Collected: 09/25/22 12:40
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.263g
Data File Name: P539898
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 00:33
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	0.148	0.796			1
Total Penta-Dioxins	ND	U	0.150	3.98			1
Total Hexa-Dioxins	5.15		0.0273	3.98	1.41		1
Total Hepta-Dioxins	28.8		0.130	3.98	1.02		1
Total Tetra-Furans	1.30		0.146	0.796	0.75		1
Total Penta-Furans	0.584J		0.115	3.98	1.61		1
Total Hexa-Furans	2.32J		0.0470	3.98	1.27		1
Total Hepta-Furans	2.92J		0.0806	3.98	0.89		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 12:40
Date Received: 10/01/22 09:40

Sample Name: 3265649-002 (Hyde Park 1B)
Lab Code: E2200952-002

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.263g

Date Analyzed: 11/10/22 00:33
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Data File Name: P539898
ICAL Date: 01/18/22

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	920.372	46		40-135	0.79	1.023
13C-1,2,3,7,8-PeCDD	2000	766.436	38	Y	40-135	1.57	1.204
13C-1,2,3,4,7,8-HxCDD	2000	541.250	27	Y	40-135	1.25	0.991
13C-1,2,3,6,7,8-HxCDD	2000	569.563	28	Y	40-135	1.29	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	415.679	21	Y	40-135	1.07	1.067
13C-OCDD	4000	538.234	13	Y	40-135	0.88	1.139
13C-2,3,7,8-TCDF	2000	727.104	36	Y	40-135	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	756.610	38	Y	40-135	1.59	1.158
13C-2,3,4,7,8-PeCDF	2000	1249.786	62		40-135	1.61	1.193
13C-1,2,3,4,7,8-HxCDF	2000	526.491	26	Y	40-135	0.51	0.969
13C-1,2,3,6,7,8-HxCDF	2000	521.171	26	Y	40-135	0.51	0.972
13C-1,2,3,7,8,9-HxCDF	2000	534.763	27	Y	40-135	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	652.653	33	Y	40-135	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	318.835	16	Y	40-135	0.42	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	391.372	20	Y	40-135	0.43	1.079
37Cl-2,3,7,8-TCDD	800	578.969	72		40-135	NA	1.025

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 12:40
Date Received: 10/01/22 09:40

Sample Name: 3265649-002 (Hyde Park 1B)
Lab Code: E2200952-002

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.148	0.796	1	1	
1,2,3,7,8-PeCDD	0.194	0.150	3.98	1	1	0.194
1,2,3,6,7,8-HxCDD	0.510	0.0263	3.98	1	0.1	0.0510
1,2,3,4,7,8-HxCDD	0.165	0.0281	3.98	1	0.1	0.0165
1,2,3,7,8,9-HxCDD	0.340	0.0273	3.98	1	0.1	0.0340
1,2,3,4,6,7,8-HpCDD	10.1	0.130	3.98	1	0.01	0.101
OCDD	173	1.67	7.96	1	0.0003	0.0519
2,3,7,8-TCDF	1.22	0.146	0.796	1	0.1	0.122
1,2,3,7,8-PeCDF	0.455	0.152	3.98	1	0.03	0.0137
2,3,4,7,8-PeCDF	0.241	0.0918	3.98	1	0.3	0.0723
1,2,3,6,7,8-HxCDF	0.325	0.0483	3.98	1	0.1	0.0325
1,2,3,7,8,9-HxCDF	0.421	0.0540	3.98	1	0.1	0.0421
1,2,3,4,7,8-HxCDF	0.443	0.0475	3.98	1	0.1	0.0443
2,3,4,6,7,8-HxCDF	0.323	0.0406	3.98	1	0.1	0.0323
1,2,3,4,6,7,8-HpCDF	1.53	0.0774	3.98	1	0.01	0.0153
1,2,3,4,7,8,9-HpCDF	0.744	0.0840	3.98	1	0.01	0.00744
OCDF	7.89	0.503	7.96	1	0.0003	0.00237
Total TEQ						0.833

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-002 (Hyde Park 1B)
Lab Code: E2200952-002

Service Request: E2200952
Date Collected: 09/25/22 12:40
Date Received: 10/01/22 09:40
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
5.8839g

Date Analyzed: 10/17/22 17:34
NA
E-Balance-01

Native Analyte Results

Table with 8 columns: Analyte Name, Result, Q, EDL, MRL, Ion Ratio, RRT, Dilution Factor. Row 1: Total Solids, 61.2, -, -, -, RRT, 1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 11:40
Date Received: 10/01/22 09:40

Sample Name: 3265649-003 (Hyde Park 2A)
Lab Code: E2200952-003

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.029g

Data File Name: P539899
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 01:22
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	0.320JK		0.151	0.937	0.44	1.001	1
1,2,3,7,8-PeCDD	2.04JK		0.151	4.69	1.21	1.001	1
1,2,3,6,7,8-HxCDD	26.6		0.175	4.69	1.14	1.000	1
1,2,3,4,7,8-HxCDD	2.36JK		0.191	4.69	0.95	1.000	1
1,2,3,7,8,9-HxCDD	13.9		0.183	4.69	1.17	1.007	1
1,2,3,4,6,7,8-HpCDD	395		0.408	4.69	1.02	1.000	1
OCDD	3380		3.81	9.37	0.89	1.000	1
2,3,7,8-TCDF	2.12		0.133	0.937	0.67	1.001	1
1,2,3,7,8-PeCDF	1.35J		0.391	4.69	1.35	1.001	1
2,3,4,7,8-PeCDF	3.15J		0.224	4.69	1.34	1.002	1
1,2,3,6,7,8-HxCDF	8.43		0.716	4.69	1.14	1.000	1
1,2,3,7,8,9-HxCDF	1.25J		0.875	4.69	1.11	1.000	1
1,2,3,4,7,8-HxCDF	4.10J		0.767	4.69	1.17	1.000	1
2,3,4,6,7,8-HxCDF	4.84		0.640	4.69	1.23	1.000	1
1,2,3,4,6,7,8-HpCDF	279		0.483	4.69	1.00	1.000	1
1,2,3,4,7,8,9-HpCDF	3.21J		0.513	4.69	0.97	1.000	1
OCDF	216		1.21	9.37	0.85	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-003 (Hyde Park 2A)
Lab Code: E2200952-003

Service Request: E2200952
Date Collected: 09/25/22 11:40
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.029g
Data File Name: P539899
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 01:22
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	1.58		0.151	0.937	0.68		1
Total Penta-Dioxins	30.5		0.151	4.69	1.51		1
Total Hexa-Dioxins	254		0.182	4.69	1.24		1
Total Hepta-Dioxins	839		0.408	4.69	1.02		1
Total Tetra-Furans	51.0		0.133	0.937	0.75		1
Total Penta-Furans	54.4		0.118	4.69	1.33		1
Total Hexa-Furans	163		0.738	4.69	1.20		1
Total Hepta-Furans	535		0.498	4.69	1.00		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 11:40
Date Received: 10/01/22 09:40

Sample Name: 3265649-003 (Hyde Park 2A)
Lab Code: E2200952-003

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.029g
Data File Name: P539899
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 01:22
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	998.535	50		40-135	0.80	1.024
13C-1,2,3,7,8-PeCDD	2000	805.479	40		40-135	1.59	1.204
13C-1,2,3,4,7,8-HxCDD	2000	601.780	30	Y	40-135	1.30	0.991
13C-1,2,3,6,7,8-HxCDD	2000	658.316	33	Y	40-135	1.28	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	514.594	26	Y	40-135	1.07	1.067
13C-OCDD	4000	730.291	18	Y	40-135	0.89	1.139
13C-2,3,7,8-TCDF	2000	869.770	43		40-135	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	812.417	41		40-135	1.57	1.158
13C-2,3,4,7,8-PeCDF	2000	1388.099	69		40-135	1.59	1.194
13C-1,2,3,4,7,8-HxCDF	2000	618.507	31	Y	40-135	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	612.708	31	Y	40-135	0.50	0.973
13C-1,2,3,7,8,9-HxCDF	2000	605.731	30	Y	40-135	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	758.788	38	Y	40-135	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	406.793	20	Y	40-135	0.43	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	467.909	23	Y	40-135	0.43	1.080
37Cl-2,3,7,8-TCDD	800	601.878	75		40-135	NA	1.025

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 11:40
Date Received: 10/01/22 09:40

Sample Name: 3265649-003 (Hyde Park 2A)
Lab Code: E2200952-003

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	0.320	0.151	0.937	1	1	0.320
1,2,3,7,8-PeCDD	2.04	0.151	4.69	1	1	2.04
1,2,3,6,7,8-HxCDD	26.6	0.175	4.69	1	0.1	2.66
1,2,3,4,7,8-HxCDD	2.36	0.191	4.69	1	0.1	0.236
1,2,3,7,8,9-HxCDD	13.9	0.183	4.69	1	0.1	1.39
1,2,3,4,6,7,8-HpCDD	395	0.408	4.69	1	0.01	3.95
OCDD	3380	3.81	9.37	1	0.0003	1.01
2,3,7,8-TCDF	2.12	0.133	0.937	1	0.1	0.212
1,2,3,7,8-PeCDF	1.35	0.391	4.69	1	0.03	0.0405
2,3,4,7,8-PeCDF	3.15	0.224	4.69	1	0.3	0.945
1,2,3,6,7,8-HxCDF	8.43	0.716	4.69	1	0.1	0.843
1,2,3,7,8,9-HxCDF	1.25	0.875	4.69	1	0.1	0.125
1,2,3,4,7,8-HxCDF	4.10	0.767	4.69	1	0.1	0.410
2,3,4,6,7,8-HxCDF	4.84	0.640	4.69	1	0.1	0.484
1,2,3,4,6,7,8-HpCDF	279	0.483	4.69	1	0.01	2.79
1,2,3,4,7,8,9-HpCDF	3.21	0.513	4.69	1	0.01	0.0321
OCDF	216	1.21	9.37	1	0.0003	0.0648
Total TEQ						17.6

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-003 (Hyde Park 2A)
Lab Code: E2200952-003

Service Request: E2200952
Date Collected: 09/25/22 11:40
Date Received: 10/01/22 09:40
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
7.3948g

Date Analyzed: 10/17/22 17:34
NA
E-Balance-01

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Solids	53.2		-	-			1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-004 (Hyde Park 2B)
Lab Code: E2200952-004

Service Request: E2200952
Date Collected: 09/25/22 11:45
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.044g
Data File Name: P539900
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 02:10
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.177	0.815			1
1,2,3,7,8-PeCDD	ND	U	0.0734	4.07			1
1,2,3,6,7,8-HxCDD	0.387JK		0.0522	4.07	1.56	1.000	1
1,2,3,4,7,8-HxCDD	0.176J		0.0568	4.07	1.07	1.000	1
1,2,3,7,8,9-HxCDD	0.432J		0.0545	4.07	1.35	1.006	1
1,2,3,4,6,7,8-HpCDD	12.9		0.241	4.07	1.05	1.000	1
OCDD	489		1.33	8.15	0.87	1.000	1
2,3,7,8-TCDF	1.85		0.0778	0.815	0.79	1.001	1
1,2,3,7,8-PeCDF	0.640J		0.0885	4.07	1.38	1.000	1
2,3,4,7,8-PeCDF	0.319J		0.0515	4.07	1.51	1.001	1
1,2,3,6,7,8-HxCDF	0.339JK		0.0457	4.07	0.83	1.000	1
1,2,3,7,8,9-HxCDF	0.187JK		0.0520	4.07	0.70	1.001	1
1,2,3,4,7,8-HxCDF	0.653J		0.0465	4.07	1.13	1.000	1
2,3,4,6,7,8-HxCDF	0.274JK		0.0410	4.07	1.94	1.000	1
1,2,3,4,6,7,8-HpCDF	4.29		0.102	4.07	0.91	1.000	1
1,2,3,4,7,8,9-HpCDF	0.483J		0.104	4.07	0.91	1.000	1
OCDF	26.4		0.420	8.15	0.92	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-004 (Hyde Park 2B)
Lab Code: E2200952-004

Service Request: E2200952
Date Collected: 09/25/22 11:45
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.044g
Data File Name: P539900
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 02:10
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	0.177	0.815			1
Total Penta-Dioxins	0.166J		0.0734	4.07	1.74		1
Total Hexa-Dioxins	3.85J		0.0545	4.07	1.22		1
Total Hepta-Dioxins	28.2		0.241	4.07	1.05		1
Total Tetra-Furans	3.81		0.0778	0.815	0.67		1
Total Penta-Furans	1.88J		0.0659	4.07	1.70		1
Total Hexa-Furans	3.28J		0.0458	4.07	1.34		1
Total Hepta-Furans	14.4		0.103	4.07	0.91		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-004 (Hyde Park 2B)
Lab Code: E2200952-004

Service Request: E2200952
Date Collected: 09/25/22 11:45
Date Received: 10/01/22 09:40
Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.044g
Data File Name: P539900
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 02:10
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1451.626	73		40-135	0.80	1.023
13C-1,2,3,7,8-PeCDD	2000	1248.562	62		40-135	1.60	1.204
13C-1,2,3,4,7,8-HxCDD	2000	933.779	47		40-135	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1004.169	50		40-135	1.27	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	762.694	38	Y	40-135	1.06	1.067
13C-OCDD	4000	1024.943	26	Y	40-135	0.91	1.138
13C-2,3,7,8-TCDF	2000	1197.302	60		40-135	0.80	0.992
13C-1,2,3,7,8-PeCDF	2000	1251.420	63		40-135	1.58	1.158
13C-2,3,4,7,8-PeCDF	2000	2034.418	102		40-135	1.58	1.193
13C-1,2,3,4,7,8-HxCDF	2000	961.192	48		40-135	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	922.823	46		40-135	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	963.868	48		40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1141.884	57		40-135	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	620.885	31	Y	40-135	0.43	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	771.426	39	Y	40-135	0.43	1.080
37Cl-2,3,7,8-TCDD	800	610.236	76		40-135	NA	1.025

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-004 (Hyde Park 2B)
Lab Code: E2200952-004

Service Request: E2200952
Date Collected: 09/25/22 11:45
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.177	0.815	1	1	
1,2,3,7,8-PeCDD	ND	0.0734	4.07	1	1	
1,2,3,6,7,8-HxCDD	0.387	0.0522	4.07	1	0.1	0.0387
1,2,3,4,7,8-HxCDD	0.176	0.0568	4.07	1	0.1	0.0176
1,2,3,7,8,9-HxCDD	0.432	0.0545	4.07	1	0.1	0.0432
1,2,3,4,6,7,8-HpCDD	12.9	0.241	4.07	1	0.01	0.129
OCDD	489	1.33	8.15	1	0.0003	0.147
2,3,7,8-TCDF	1.85	0.0778	0.815	1	0.1	0.185
1,2,3,7,8-PeCDF	0.640	0.0885	4.07	1	0.03	0.0192
2,3,4,7,8-PeCDF	0.319	0.0515	4.07	1	0.3	0.0957
1,2,3,6,7,8-HxCDF	0.339	0.0457	4.07	1	0.1	0.0339
1,2,3,7,8,9-HxCDF	0.187	0.0520	4.07	1	0.1	0.0187
1,2,3,4,7,8-HxCDF	0.653	0.0465	4.07	1	0.1	0.0653
2,3,4,6,7,8-HxCDF	0.274	0.0410	4.07	1	0.1	0.0274
1,2,3,4,6,7,8-HpCDF	4.29	0.102	4.07	1	0.01	0.0429
1,2,3,4,7,8,9-HpCDF	0.483	0.104	4.07	1	0.01	0.00483
OCDF	26.4	0.420	8.15	1	0.0003	0.00792
Total TEQ						0.876

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-004 (Hyde Park 2B)
Lab Code: E2200952-004

Service Request: E2200952
Date Collected: 09/25/22 11:45
Date Received: 10/01/22 09:40
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
6.0869g

Date Analyzed: 10/17/22 17:34
NA
E-Balance-01

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Solids	61.1		-	-			1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-005 (Hyde Park 3A)
Lab Code: E2200952-005

Service Request: E2200952
Date Collected: 09/25/22 09:55
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.205g
Data File Name: P539901
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 02:58
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.134	0.921			1
1,2,3,7,8-PeCDD	2.34J		0.111	4.60	1.63	1.000	1
1,2,3,6,7,8-HxCDD	5.41		0.0898	4.60	1.26	1.000	1
1,2,3,4,7,8-HxCDD	4.14J		0.0971	4.60	1.18	1.000	1
1,2,3,7,8,9-HxCDD	5.73		0.0934	4.60	1.14	1.007	1
1,2,3,4,6,7,8-HpCDD	40.0		0.237	4.60	1.00	1.000	1
OCDD	65.4		0.562	9.21	0.89	1.000	1
2,3,7,8-TCDF	2.13		0.113	0.921	0.69	1.001	1
1,2,3,7,8-PeCDF	2.74JK		0.371	4.60	1.30	1.001	1
2,3,4,7,8-PeCDF	4.59J		0.226	4.60	1.43	1.001	1
1,2,3,6,7,8-HxCDF	11.6		0.428	4.60	1.14	1.000	1
1,2,3,7,8,9-HxCDF	7.08		0.533	4.60	1.08	1.001	1
1,2,3,4,7,8-HxCDF	11.7		0.431	4.60	1.12	1.000	1
2,3,4,6,7,8-HxCDF	16.1		0.421	4.60	1.20	1.000	1
1,2,3,4,6,7,8-HpCDF	51.3		0.172	4.60	1.01	1.000	1
1,2,3,4,7,8,9-HpCDF	7.22		0.185	4.60	0.89	1.000	1
OCDF	24.3		0.493	9.21	0.84	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-005 (Hyde Park 3A)
Lab Code: E2200952-005

Service Request: E2200952
Date Collected: 09/25/22 09:55
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.205g
Data File Name: P539901
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 02:58
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	0.788J		0.134	0.921	0.86		1
Total Penta-Dioxins	27.0		0.111	4.60	1.58		1
Total Hexa-Dioxins	69.4		0.0933	4.60	1.24		1
Total Hepta-Dioxins	77.7		0.237	4.60	0.97		1
Total Tetra-Furans	34.4		0.113	0.921	0.86		1
Total Penta-Furans	33.5		0.116	4.60	1.48		1
Total Hexa-Furans	111		0.449	4.60	1.27		1
Total Hepta-Furans	86.9		0.178	4.60	1.01		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-005 (Hyde Park 3A)
Lab Code: E2200952-005

Service Request: E2200952
Date Collected: 09/25/22 09:55
Date Received: 10/01/22 09:40
Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.205g
Data File Name: P539901
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 02:58
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1535.863	77		40-135	0.79	1.023
13C-1,2,3,7,8-PeCDD	2000	1407.973	70		40-135	1.58	1.204
13C-1,2,3,4,7,8-HxCDD	2000	1157.583	58		40-135	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1241.959	62		40-135	1.28	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1027.856	51		40-135	1.05	1.068
13C-OCDD	4000	1509.759	38	Y	40-135	0.89	1.139
13C-2,3,7,8-TCDF	2000	1256.586	63		40-135	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	1414.438	71		40-135	1.58	1.158
13C-2,3,4,7,8-PeCDF	2000	2247.821	112		40-135	1.58	1.193
13C-1,2,3,4,7,8-HxCDF	2000	1203.358	60		40-135	0.52	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1161.624	58		40-135	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1151.386	58		40-135	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1301.406	65		40-135	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	860.909	43		40-135	0.43	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1023.198	51		40-135	0.42	1.080
37Cl-2,3,7,8-TCDD	800	549.598	69		40-135	NA	1.025

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 09:55
Date Received: 10/01/22 09:40

Sample Name: 3265649-005 (Hyde Park 3A)
Lab Code: E2200952-005

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.134	0.921	1	1	
1,2,3,7,8-PeCDD	2.34	0.111	4.60	1	1	2.34
1,2,3,6,7,8-HxCDD	5.41	0.0898	4.60	1	0.1	0.541
1,2,3,4,7,8-HxCDD	4.14	0.0971	4.60	1	0.1	0.414
1,2,3,7,8,9-HxCDD	5.73	0.0934	4.60	1	0.1	0.573
1,2,3,4,6,7,8-HpCDD	40.0	0.237	4.60	1	0.01	0.400
OCDD	65.4	0.562	9.21	1	0.0003	0.0196
2,3,7,8-TCDF	2.13	0.113	0.921	1	0.1	0.213
1,2,3,7,8-PeCDF	2.74	0.371	4.60	1	0.03	0.0822
2,3,4,7,8-PeCDF	4.59	0.226	4.60	1	0.3	1.38
1,2,3,6,7,8-HxCDF	11.6	0.428	4.60	1	0.1	1.16
1,2,3,7,8,9-HxCDF	7.08	0.533	4.60	1	0.1	0.708
1,2,3,4,7,8-HxCDF	11.7	0.431	4.60	1	0.1	1.17
2,3,4,6,7,8-HxCDF	16.1	0.421	4.60	1	0.1	1.61
1,2,3,4,6,7,8-HpCDF	51.3	0.172	4.60	1	0.01	0.513
1,2,3,4,7,8,9-HpCDF	7.22	0.185	4.60	1	0.01	0.0722
OCDF	24.3	0.493	9.21	1	0.0003	0.00729
Total TEQ						11.2

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-005 (Hyde Park 3A)
Lab Code: E2200952-005

Service Request: E2200952
Date Collected: 09/25/22 09:55
Date Received: 10/01/22 09:40
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
5.0324g

Date Analyzed: 10/17/22 17:34
NA
E-Balance-01

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Solids	53.2		-	-			1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 10:05
Date Received: 10/01/22 09:40

Sample Name: 3265649-006 (Hyde Park 3B)
Lab Code: E2200952-006

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.249g
Data File Name: P539902
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 03:47
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0951	0.825			1
1,2,3,7,8-PeCDD	ND	U	0.125	4.13			1
1,2,3,6,7,8-HxCDD	0.245JK		0.0750	4.13	1.73	1.000	1
1,2,3,4,7,8-HxCDD	0.135JK		0.0808	4.13	0.86	1.000	1
1,2,3,7,8,9-HxCDD	0.356J		0.0780	4.13	1.11	1.007	1
1,2,3,4,6,7,8-HpCDD	8.94		0.222	4.13	0.99	1.000	1
OCDD	345		0.998	8.25	0.88	1.000	1
2,3,7,8-TCDF	1.83K		0.114	0.825	0.57	1.001	1
1,2,3,7,8-PeCDF	0.550JK		0.0938	4.13	1.23	1.001	1
2,3,4,7,8-PeCDF	0.308JK		0.0572	4.13	1.91	1.001	1
1,2,3,6,7,8-HxCDF	0.333JK		0.0798	4.13	0.91	1.000	1
1,2,3,7,8,9-HxCDF	0.211J		0.0966	4.13	1.37	1.000	1
1,2,3,4,7,8-HxCDF	0.602J		0.0841	4.13	1.07	1.000	1
2,3,4,6,7,8-HxCDF	0.372JK		0.0780	4.13	0.96	1.000	1
1,2,3,4,6,7,8-HpCDF	2.72J		0.0529	4.13	1.02	1.000	1
1,2,3,4,7,8,9-HpCDF	0.364J		0.0547	4.13	0.95	1.000	1
OCDF	10.8		0.353	8.25	0.84	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-006 (Hyde Park 3B)
Lab Code: E2200952-006

Service Request: E2200952
Date Collected: 09/25/22 10:05
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.249g
Data File Name: P539902
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 03:47
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	0.0951	0.825			1
Total Penta-Dioxins	ND	U	0.125	4.13			1
Total Hexa-Dioxins	2.06J		0.0778	4.13	1.07		1
Total Hepta-Dioxins	23.0		0.222	4.13	1.01		1
Total Tetra-Furans	4.16		0.114	0.825	0.84		1
Total Penta-Furans	1.40J		0.0715	4.13	1.64		1
Total Hexa-Furans	1.36J		0.0839	4.13	1.40		1
Total Hepta-Furans	5.77		0.0537	4.13	1.02		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 10:05
Date Received: 10/01/22 09:40

Sample Name: 3265649-006 (Hyde Park 3B)
Lab Code: E2200952-006

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.249g

Data File Name: P539902
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 03:47
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1360.440	68		40-135	0.79	1.024
13C-1,2,3,7,8-PeCDD	2000	1184.340	59		40-135	1.57	1.204
13C-1,2,3,4,7,8-HxCDD	2000	927.488	46		40-135	1.28	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1013.726	51		40-135	1.30	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	779.339	39	Y	40-135	1.06	1.067
13C-OCDD	4000	1018.185	25	Y	40-135	0.89	1.139
13C-2,3,7,8-TCDF	2000	1142.383	57		40-135	0.78	0.992
13C-1,2,3,7,8-PeCDF	2000	1184.467	59		40-135	1.58	1.158
13C-2,3,4,7,8-PeCDF	2000	1931.554	97		40-135	1.57	1.194
13C-1,2,3,4,7,8-HxCDF	2000	961.844	48		40-135	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	928.545	46		40-135	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	933.055	47		40-135	0.51	1.009
13C-2,3,4,6,7,8-HxCDF	2000	1046.803	52		40-135	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	651.188	33	Y	40-135	0.42	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	783.805	39	Y	40-135	0.42	1.080
37Cl-2,3,7,8-TCDD	800	578.502	72		40-135	NA	1.025

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-006 (Hyde Park 3B)
Lab Code: E2200952-006

Service Request: E2200952
Date Collected: 09/25/22 10:05
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.0951	0.825	1	1	
1,2,3,7,8-PeCDD	ND	0.125	4.13	1	1	
1,2,3,6,7,8-HxCDD	0.245	0.0750	4.13	1	0.1	0.0245
1,2,3,4,7,8-HxCDD	0.135	0.0808	4.13	1	0.1	0.0135
1,2,3,7,8,9-HxCDD	0.356	0.0780	4.13	1	0.1	0.0356
1,2,3,4,6,7,8-HpCDD	8.94	0.222	4.13	1	0.01	0.0894
OCDD	345	0.998	8.25	1	0.0003	0.104
2,3,7,8-TCDF	1.83	0.114	0.825	1	0.1	0.183
1,2,3,7,8-PeCDF	0.550	0.0938	4.13	1	0.03	0.0165
2,3,4,7,8-PeCDF	0.308	0.0572	4.13	1	0.3	0.0924
1,2,3,6,7,8-HxCDF	0.333	0.0798	4.13	1	0.1	0.0333
1,2,3,7,8,9-HxCDF	0.211	0.0966	4.13	1	0.1	0.0211
1,2,3,4,7,8-HxCDF	0.602	0.0841	4.13	1	0.1	0.0602
2,3,4,6,7,8-HxCDF	0.372	0.0780	4.13	1	0.1	0.0372
1,2,3,4,6,7,8-HpCDF	2.72	0.0529	4.13	1	0.01	0.0272
1,2,3,4,7,8,9-HpCDF	0.364	0.0547	4.13	1	0.01	0.00364
OCDF	10.8	0.353	8.25	1	0.0003	0.00324
Total TEQ						0.745

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-006 (Hyde Park 3B)
Lab Code: E2200952-006

Service Request: E2200952
Date Collected: 09/25/22 10:05
Date Received: 10/01/22 09:40
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
5.5194g

Date Analyzed: 10/17/22 17:34
NA
E-Balance-01

Native Analyte Results

Table with 8 columns: Analyte Name, Result, Q, EDL, MRL, Ion Ratio, RRT, Dilution Factor. Row 1: Total Solids, 59.1, -, -, -, -, 1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 09:05
Date Received: 10/01/22 09:40

Sample Name: 3265649-007 (Hyde Park 4A)
Lab Code: E2200952-007

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.282g

Data File Name: P539903
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 04:35
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	0.472	JK	0.140	0.950	0.59	1.001	1
1,2,3,7,8-PeCDD	1.73	JK	0.175	4.75	1.25	1.001	1
1,2,3,6,7,8-HxCDD	21.5		0.230	4.75	1.21	1.000	1
1,2,3,4,7,8-HxCDD	4.30	J	0.246	4.75	1.11	1.000	1
1,2,3,7,8,9-HxCDD	13.3		0.239	4.75	1.27	1.007	1
1,2,3,4,6,7,8-HpCDD	637		1.11	4.75	1.03	1.000	1
OCDD	4730		2.91	9.50	0.88	1.000	1
2,3,7,8-TCDF	10.4		0.0937	0.950	0.80	1.001	1
1,2,3,7,8-PeCDF	1.46	J	0.258	4.75	1.64	1.001	1
2,3,4,7,8-PeCDF	2.80	JK	0.144	4.75	1.21	1.001	1
1,2,3,6,7,8-HxCDF	3.17	J	0.318	4.75	1.22	1.000	1
1,2,3,7,8,9-HxCDF	0.718	JK	0.383	4.75	0.69	1.000	1
1,2,3,4,7,8-HxCDF	2.79	JK	0.319	4.75	0.93	1.000	1
2,3,4,6,7,8-HxCDF	2.84	J	0.269	4.75	1.31	1.000	1
1,2,3,4,6,7,8-HpCDF	73.0		0.508	4.75	1.03	1.000	1
1,2,3,4,7,8,9-HpCDF	2.86	J	0.559	4.75	0.93	1.000	1
OCDF	175		0.917	9.50	0.84	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-007 (Hyde Park 4A)
Lab Code: E2200952-007

Service Request: E2200952
Date Collected: 09/25/22 09:05
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.282g
Data File Name: P539903
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 04:35
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	1.76		0.140	0.950	0.75		1
Total Penta-Dioxins	24.4		0.175	4.75	1.47		1
Total Hexa-Dioxins	220		0.238	4.75	1.25		1
Total Hepta-Dioxins	1270		1.11	4.75	1.01		1
Total Tetra-Furans	184		0.0937	0.950	0.66		1
Total Penta-Furans	41.5		0.119	4.75	1.37		1
Total Hexa-Furans	59.7		0.316	4.75	1.24		1
Total Hepta-Furans	225		0.533	4.75	1.03		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 09:05
Date Received: 10/01/22 09:40

Sample Name: 3265649-007 (Hyde Park 4A)
Lab Code: E2200952-007

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.282g

Date Analyzed: 11/10/22 04:35
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Data File Name: P539903
ICAL Date: 01/18/22

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1043.894	52		40-135	0.80	1.024
13C-1,2,3,7,8-PeCDD	2000	867.768	43		40-135	1.58	1.204
13C-1,2,3,4,7,8-HxCDD	2000	657.523	33	Y	40-135	1.27	0.991
13C-1,2,3,6,7,8-HxCDD	2000	673.565	34	Y	40-135	1.26	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	546.530	27	Y	40-135	1.04	1.067
13C-OCDD	4000	843.396	21	Y	40-135	0.89	1.139
13C-2,3,7,8-TCDF	2000	915.146	46		40-135	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	844.347	42		40-135	1.58	1.158
13C-2,3,4,7,8-PeCDF	2000	1510.061	76		40-135	1.58	1.194
13C-1,2,3,4,7,8-HxCDF	2000	650.584	33	Y	40-135	0.51	0.969
13C-1,2,3,6,7,8-HxCDF	2000	623.176	31	Y	40-135	0.51	0.972
13C-1,2,3,7,8,9-HxCDF	2000	597.904	30	Y	40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	805.477	40		40-135	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	432.608	22	Y	40-135	0.43	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	499.603	25	Y	40-135	0.44	1.079
37Cl-2,3,7,8-TCDD	800	610.459	76		40-135	NA	1.025

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 09:05
Date Received: 10/01/22 09:40

Sample Name: 3265649-007 (Hyde Park 4A)
Lab Code: E2200952-007

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	0.472	0.140	0.950	1	1	0.472
1,2,3,7,8-PeCDD	1.73	0.175	4.75	1	1	1.73
1,2,3,6,7,8-HxCDD	21.5	0.230	4.75	1	0.1	2.15
1,2,3,4,7,8-HxCDD	4.30	0.246	4.75	1	0.1	0.430
1,2,3,7,8,9-HxCDD	13.3	0.239	4.75	1	0.1	1.33
1,2,3,4,6,7,8-HpCDD	637	1.11	4.75	1	0.01	6.37
OCDD	4730	2.91	9.50	1	0.0003	1.42
2,3,7,8-TCDF	10.4	0.0937	0.950	1	0.1	1.04
1,2,3,7,8-PeCDF	1.46	0.258	4.75	1	0.03	0.0438
2,3,4,7,8-PeCDF	2.80	0.144	4.75	1	0.3	0.840
1,2,3,6,7,8-HxCDF	3.17	0.318	4.75	1	0.1	0.317
1,2,3,7,8,9-HxCDF	0.718	0.383	4.75	1	0.1	0.0718
1,2,3,4,7,8-HxCDF	2.79	0.319	4.75	1	0.1	0.279
2,3,4,6,7,8-HxCDF	2.84	0.269	4.75	1	0.1	0.284
1,2,3,4,6,7,8-HpCDF	73.0	0.508	4.75	1	0.01	0.730
1,2,3,4,7,8,9-HpCDF	2.86	0.559	4.75	1	0.01	0.0286
OCDF	175	0.917	9.50	1	0.0003	0.0525
Total TEQ						17.6

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-007 (Hyde Park 4A)
Lab Code: E2200952-007

Service Request: E2200952
Date Collected: 09/25/22 09:05
Date Received: 10/01/22 09:40
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
6.4835g

Date Analyzed: 10/17/22 17:34
NA
E-Balance-01

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Solids	51.2		-	-			1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 09:15
Date Received: 10/01/22 09:40

Sample Name: 3265649-008 (Hyde Park 4B)
Lab Code: E2200952-008

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.215g

Data File Name: P539904
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 05:24
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.101	0.848			1
1,2,3,7,8-PeCDD	0.292J		0.0866	4.24	1.47	1.001	1
1,2,3,6,7,8-HxCDD	1.31J		0.0672	4.24	1.31	1.000	1
1,2,3,4,7,8-HxCDD	0.597JK		0.0716	4.24	0.94	1.000	1
1,2,3,7,8,9-HxCDD	1.22J		0.0694	4.24	1.10	1.007	1
1,2,3,4,6,7,8-HpCDD	30.8		0.211	4.24	1.06	1.000	1
OCDD	684		1.16	8.48	0.88	1.000	1
2,3,7,8-TCDF	7.57		0.111	0.848	0.70	1.001	1
1,2,3,7,8-PeCDF	3.10J		0.199	4.24	1.65	1.001	1
2,3,4,7,8-PeCDF	2.13J		0.118	4.24	1.59	1.001	1
1,2,3,6,7,8-HxCDF	1.17JK		0.0372	4.24	0.97	1.000	1
1,2,3,7,8,9-HxCDF	0.998J		0.0445	4.24	1.39	1.000	1
1,2,3,4,7,8-HxCDF	2.70J		0.0381	4.24	1.09	1.000	1
2,3,4,6,7,8-HxCDF	0.829JK		0.0358	4.24	1.45	1.000	1
1,2,3,4,6,7,8-HpCDF	6.01		0.0952	4.24	0.94	1.000	1
1,2,3,4,7,8,9-HpCDF	1.49J		0.0996	4.24	0.91	1.000	1
OCDF	24.5		0.309	8.48	0.82	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-008 (Hyde Park 4B)
Lab Code: E2200952-008

Service Request: E2200952
Date Collected: 09/25/22 09:15
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.215g
Data File Name: P539904
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 05:24
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	0.201J		0.101	0.848	0.78		1
Total Penta-Dioxins	0.991J		0.0866	4.24	1.41		1
Total Hexa-Dioxins	11.0		0.0694	4.24	1.29		1
Total Hepta-Dioxins	61.9		0.211	4.24	1.07		1
Total Tetra-Furans	25.9		0.111	0.848	0.78		1
Total Penta-Furans	5.53		0.149	4.24	1.41		1
Total Hexa-Furans	6.69		0.0386	4.24	1.33		1
Total Hepta-Furans	14.2		0.0973	4.24	0.94		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 09:15
Date Received: 10/01/22 09:40

Sample Name: 3265649-008 (Hyde Park 4B)
Lab Code: E2200952-008

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.215g

Date Analyzed: 11/10/22 05:24
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Data File Name: P539904
ICAL Date: 01/18/22

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1329.560	66		40-135	0.79	1.023
13C-1,2,3,7,8-PeCDD	2000	1155.027	58		40-135	1.57	1.204
13C-1,2,3,4,7,8-HxCDD	2000	896.965	45		40-135	1.26	0.990
13C-1,2,3,6,7,8-HxCDD	2000	975.617	49		40-135	1.26	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	832.667	42		40-135	1.06	1.067
13C-OCDD	4000	1282.869	32	Y	40-135	0.88	1.138
13C-2,3,7,8-TCDF	2000	1134.606	57		40-135	0.80	0.992
13C-1,2,3,7,8-PeCDF	2000	1148.788	57		40-135	1.57	1.158
13C-2,3,4,7,8-PeCDF	2000	1913.996	96		40-135	1.56	1.194
13C-1,2,3,4,7,8-HxCDF	2000	944.431	47		40-135	0.51	0.969
13C-1,2,3,6,7,8-HxCDF	2000	910.595	46		40-135	0.51	0.972
13C-1,2,3,7,8,9-HxCDF	2000	898.938	45		40-135	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1067.453	53		40-135	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	681.131	34	Y	40-135	0.43	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	794.810	40		40-135	0.43	1.079
37Cl-2,3,7,8-TCDD	800	578.994	72		40-135	NA	1.025

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-008 (Hyde Park 4B)
Lab Code: E2200952-008

Service Request: E2200952
Date Collected: 09/25/22 09:15
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.101	0.848	1	1	
1,2,3,7,8-PeCDD	0.292	0.0866	4.24	1	1	0.292
1,2,3,6,7,8-HxCDD	1.31	0.0672	4.24	1	0.1	0.131
1,2,3,4,7,8-HxCDD	0.597	0.0716	4.24	1	0.1	0.0597
1,2,3,7,8,9-HxCDD	1.22	0.0694	4.24	1	0.1	0.122
1,2,3,4,6,7,8-HpCDD	30.8	0.211	4.24	1	0.01	0.308
OCDD	684	1.16	8.48	1	0.0003	0.205
2,3,7,8-TCDF	7.57	0.111	0.848	1	0.1	0.757
1,2,3,7,8-PeCDF	3.10	0.199	4.24	1	0.03	0.0930
2,3,4,7,8-PeCDF	2.13	0.118	4.24	1	0.3	0.639
1,2,3,6,7,8-HxCDF	1.17	0.0372	4.24	1	0.1	0.117
1,2,3,7,8,9-HxCDF	0.998	0.0445	4.24	1	0.1	0.0998
1,2,3,4,7,8-HxCDF	2.70	0.0381	4.24	1	0.1	0.270
2,3,4,6,7,8-HxCDF	0.829	0.0358	4.24	1	0.1	0.0829
1,2,3,4,6,7,8-HpCDF	6.01	0.0952	4.24	1	0.01	0.0601
1,2,3,4,7,8,9-HpCDF	1.49	0.0996	4.24	1	0.01	0.0149
OCDF	24.5	0.309	8.48	1	0.0003	0.00735
Total TEQ						3.26

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-008 (Hyde Park 4B)
Lab Code: E2200952-008

Service Request: E2200952
Date Collected: 09/25/22 09:15
Date Received: 10/01/22 09:40
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
5.1585g

Date Analyzed: 10/17/22 17:34
NA
E-Balance-01

Native Analyte Results

Table with 8 columns: Analyte Name, Result, Q, EDL, MRL, Ion Ratio, RRT, Dilution Factor. Row 1: Total Solids, 57.7, -, -, -, -, 1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 10:40
Date Received: 10/01/22 09:40

Sample Name: 3265649-009 (Hyde Park 5A)
Lab Code: E2200952-009

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.221g
Data File Name: P539905
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 06:12
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0928	0.851			1
1,2,3,7,8-PeCDD	0.157J		0.0882	4.25	1.36	1.001	1
1,2,3,6,7,8-HxCDD	0.129JK		0.0584	4.25	3.77	1.000	1
1,2,3,4,7,8-HxCDD	0.159J		0.0632	4.25	1.41	1.000	1
1,2,3,7,8,9-HxCDD	0.245JK		0.0608	4.25	0.96	1.007	1
1,2,3,4,6,7,8-HpCDD	8.46		0.101	4.25	0.98	1.000	1
OCDD	663		0.653	8.51	0.92	1.000	1
2,3,7,8-TCDF	2.72K		0.0833	0.851	0.62	1.001	1
1,2,3,7,8-PeCDF	1.09J		0.288	4.25	1.45	1.001	1
2,3,4,7,8-PeCDF	0.638J		0.165	4.25	1.32	1.001	1
1,2,3,6,7,8-HxCDF	0.547J		0.0710	4.25	1.12	1.000	1
1,2,3,7,8,9-HxCDF	0.328JK		0.0827	4.25	0.96	1.000	1
1,2,3,4,7,8-HxCDF	1.15JK		0.0722	4.25	0.97	1.000	1
2,3,4,6,7,8-HxCDF	0.424J		0.0640	4.25	1.24	1.000	1
1,2,3,4,6,7,8-HpCDF	2.64J		0.112	4.25	1.04	1.000	1
1,2,3,4,7,8,9-HpCDF	0.875J		0.121	4.25	1.04	1.000	1
OCDF	20.0		0.392	8.51	0.87	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-009 (Hyde Park 5A)
Lab Code: E2200952-009

Service Request: E2200952
Date Collected: 09/25/22 10:40
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.221g
Data File Name: P539905
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 06:12
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	0.0928	0.851			1
Total Penta-Dioxins	0.516J		0.0882	4.25	1.37		1
Total Hexa-Dioxins	0.159J		0.0608	4.25	1.41		1
Total Hepta-Dioxins	21.6		0.101	4.25	1.11		1
Total Tetra-Furans	4.61		0.0833	0.851	0.78		1
Total Penta-Furans	2.83J		0.107	4.25	1.47		1
Total Hexa-Furans	0.971J		0.0717	4.25	1.12		1
Total Hepta-Furans	7.35		0.117	4.25	1.04		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-009 (Hyde Park 5A)
Lab Code: E2200952-009

Service Request: E2200952
Date Collected: 09/25/22 10:40
Date Received: 10/01/22 09:40
Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.221g
Data File Name: P539905
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 06:12
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1314.040	66		40-135	0.80	1.024
13C-1,2,3,7,8-PeCDD	2000	1092.127	55		40-135	1.60	1.204
13C-1,2,3,4,7,8-HxCDD	2000	810.323	41		40-135	1.32	0.991
13C-1,2,3,6,7,8-HxCDD	2000	884.714	44		40-135	1.21	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	722.176	36	Y	40-135	1.07	1.067
13C-OCDD	4000	1070.627	27	Y	40-135	0.88	1.139
13C-2,3,7,8-TCDF	2000	1123.334	56		40-135	0.78	0.992
13C-1,2,3,7,8-PeCDF	2000	1082.928	54		40-135	1.57	1.158
13C-2,3,4,7,8-PeCDF	2000	1841.813	92		40-135	1.57	1.194
13C-1,2,3,4,7,8-HxCDF	2000	852.597	43		40-135	0.51	0.969
13C-1,2,3,6,7,8-HxCDF	2000	830.014	42		40-135	0.52	0.972
13C-1,2,3,7,8,9-HxCDF	2000	832.932	42		40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1006.558	50		40-135	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	582.707	29	Y	40-135	0.43	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	697.417	35	Y	40-135	0.43	1.079
37Cl-2,3,7,8-TCDD	800	585.648	73		40-135	NA	1.025

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 10:40
Date Received: 10/01/22 09:40

Sample Name: 3265649-009 (Hyde Park 5A)
Lab Code: E2200952-009

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.0928	0.851	1	1	
1,2,3,7,8-PeCDD	0.157	0.0882	4.25	1	1	0.157
1,2,3,6,7,8-HxCDD	0.129	0.0584	4.25	1	0.1	0.0129
1,2,3,4,7,8-HxCDD	0.159	0.0632	4.25	1	0.1	0.0159
1,2,3,7,8,9-HxCDD	0.245	0.0608	4.25	1	0.1	0.0245
1,2,3,4,6,7,8-HpCDD	8.46	0.101	4.25	1	0.01	0.0846
OCDD	663	0.653	8.51	1	0.0003	0.199
2,3,7,8-TCDF	2.72	0.0833	0.851	1	0.1	0.272
1,2,3,7,8-PeCDF	1.09	0.288	4.25	1	0.03	0.0327
2,3,4,7,8-PeCDF	0.638	0.165	4.25	1	0.3	0.191
1,2,3,6,7,8-HxCDF	0.547	0.0710	4.25	1	0.1	0.0547
1,2,3,7,8,9-HxCDF	0.328	0.0827	4.25	1	0.1	0.0328
1,2,3,4,7,8-HxCDF	1.15	0.0722	4.25	1	0.1	0.115
2,3,4,6,7,8-HxCDF	0.424	0.0640	4.25	1	0.1	0.0424
1,2,3,4,6,7,8-HpCDF	2.64	0.112	4.25	1	0.01	0.0264
1,2,3,4,7,8,9-HpCDF	0.875	0.121	4.25	1	0.01	0.00875
OCDF	20.0	0.392	8.51	1	0.0003	0.00600
Total TEQ						1.28

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-009 (Hyde Park 5A)
Lab Code: E2200952-009

Service Request: E2200952
Date Collected: 09/25/22 10:40
Date Received: 10/01/22 09:40
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
4.7443g

Date Analyzed: 10/17/22 17:34
NA
E-Balance-01

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Solids	57.5		-	-			1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-010 (Hyde Park 5B)
Lab Code: E2200952-010

Service Request: E2200952
Date Collected: 09/25/22 10:50
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.159g
Data File Name: P539906
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 07:01
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.104	0.853			1
1,2,3,7,8-PeCDD	ND	U	0.106	4.26			1
1,2,3,6,7,8-HxCDD	0.182J		0.0306	4.26	1.25	1.000	1
1,2,3,4,7,8-HxCDD	0.0438JK		0.0340	4.26	3.48	1.000	1
1,2,3,7,8,9-HxCDD	0.193J		0.0321	4.26	1.23	1.007	1
1,2,3,4,6,7,8-HpCDD	2.63JK		0.0835	4.26	1.23	1.000	1
OCDD	71.5		0.551	8.53	0.81	1.000	1
2,3,7,8-TCDF	0.552JK		0.0482	0.853	0.93	1.001	1
1,2,3,7,8-PeCDF	ND	U	0.158	4.26			1
2,3,4,7,8-PeCDF	0.171J		0.0935	4.26	1.73	1.001	1
1,2,3,6,7,8-HxCDF	0.220J		0.0289	4.26	1.31	1.000	1
1,2,3,7,8,9-HxCDF	0.172JK		0.0383	4.26	1.48	1.000	1
1,2,3,4,7,8-HxCDF	0.281J		0.0296	4.26	1.35	1.000	1
2,3,4,6,7,8-HxCDF	0.172J		0.0265	4.26	1.41	1.000	1
1,2,3,4,6,7,8-HpCDF	1.70J		0.0743	4.26	0.95	1.000	1
1,2,3,4,7,8,9-HpCDF	0.178JK		0.0765	4.26	2.19	1.000	1
OCDF	4.60JK		0.255	8.53	0.73	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-010 (Hyde Park 5B)
Lab Code: E2200952-010

Service Request: E2200952
Date Collected: 09/25/22 10:50
Date Received: 10/01/22 09:40
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.159g
Data File Name: P539906
ICAL Date: 01/18/22

Date Analyzed: 11/10/22 07:01
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	0.104	0.853			1
Total Penta-Dioxins	ND	U	0.106	4.26			1
Total Hexa-Dioxins	0.993J		0.0321	4.26	1.28		1
Total Hepta-Dioxins	ND	U	0.0835	4.26			1
Total Tetra-Furans	0.221J		0.0482	0.853	0.69		1
Total Penta-Furans	0.294J		0.107	4.26	1.73		1
Total Hexa-Furans	1.10J		0.0302	4.26	1.21		1
Total Hepta-Furans	2.67J		0.0753	4.26	0.95		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 10:50
Date Received: 10/01/22 09:40

Sample Name: 3265649-010 (Hyde Park 5B)
Lab Code: E2200952-010

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.159g

Date Analyzed: 11/10/22 07:01
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539895

Data File Name: P539906
ICAL Date: 01/18/22

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1177.152	59		40-135	0.80	1.024
13C-1,2,3,7,8-PeCDD	2000	1119.466	56		40-135	1.58	1.205
13C-1,2,3,4,7,8-HxCDD	2000	904.141	45		40-135	1.33	0.991
13C-1,2,3,6,7,8-HxCDD	2000	978.891	49		40-135	1.20	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	818.682	41		40-135	1.04	1.068
13C-OCDD	4000	1196.925	30	Y	40-135	0.91	1.139
13C-2,3,7,8-TCDF	2000	945.028	47		40-135	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	1095.969	55		40-135	1.58	1.158
13C-2,3,4,7,8-PeCDF	2000	1829.490	91		40-135	1.58	1.194
13C-1,2,3,4,7,8-HxCDF	2000	958.173	48		40-135	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	942.696	47		40-135	0.50	0.972
13C-1,2,3,7,8,9-HxCDF	2000	889.946	44		40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1079.887	54		40-135	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	671.416	34	Y	40-135	0.42	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	797.308	40		40-135	0.42	1.080
37Cl-2,3,7,8-TCDD	800	503.812	63		40-135	NA	1.025

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: 09/25/22 10:50
Date Received: 10/01/22 09:40

Sample Name: 3265649-010 (Hyde Park 5B)
Lab Code: E2200952-010

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.104	0.853	1	1	
1,2,3,7,8-PeCDD	ND	0.106	4.26	1	1	
1,2,3,6,7,8-HxCDD	0.182	0.0306	4.26	1	0.1	0.0182
1,2,3,4,7,8-HxCDD	0.0438	0.0340	4.26	1	0.1	0.00438
1,2,3,7,8,9-HxCDD	0.193	0.0321	4.26	1	0.1	0.0193
1,2,3,4,6,7,8-HpCDD	2.63	0.0835	4.26	1	0.01	0.0263
OCDD	71.5	0.551	8.53	1	0.0003	0.0215
2,3,7,8-TCDF	0.552	0.0482	0.853	1	0.1	0.0552
1,2,3,7,8-PeCDF	ND	0.158	4.26	1	0.03	
2,3,4,7,8-PeCDF	0.171	0.0935	4.26	1	0.3	0.0513
1,2,3,6,7,8-HxCDF	0.220	0.0289	4.26	1	0.1	0.0220
1,2,3,7,8,9-HxCDF	0.172	0.0383	4.26	1	0.1	0.0172
1,2,3,4,7,8-HxCDF	0.281	0.0296	4.26	1	0.1	0.0281
2,3,4,6,7,8-HxCDF	0.172	0.0265	4.26	1	0.1	0.0172
1,2,3,4,6,7,8-HpCDF	1.70	0.0743	4.26	1	0.01	0.0170
1,2,3,4,7,8,9-HpCDF	0.178	0.0765	4.26	1	0.01	0.00178
OCDF	4.60	0.255	8.53	1	0.0003	0.00138
Total TEQ						0.301

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil
Sample Name: 3265649-010 (Hyde Park 5B)
Lab Code: E2200952-010

Service Request: E2200952
Date Collected: 09/25/22 10:50
Date Received: 10/01/22 09:40
Units: Percent
Basis: As Received

Total Solids

Analysis Method: ALS SOP
4.8905g

Date Analyzed: 10/17/22 17:34
NA
E-Balance-01

Native Analyte Results

Table with 8 columns: Analyte Name, Result, Q, EDL, MRL, Ion Ratio, RRT, Dilution Factor. Row 1: Total Solids, 57.7, -, -, -, -, 1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2200456-01

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.192g
Data File Name: P539595
ICAL Date: 01/18/22

Date Analyzed: 10/14/22 03:14
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539591

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.117	0.491			1
1,2,3,7,8-PeCDD	ND	U	0.0419	2.45			1
1,2,3,6,7,8-HxCDD	0.101JK		0.0213	2.45	0.89	1.000	1
1,2,3,4,7,8-HxCDD	0.165JK		0.0250	2.45	0.86	1.000	1
1,2,3,7,8,9-HxCDD	0.0704J		0.0230	2.45	1.31	1.007	1
1,2,3,4,6,7,8-HpCDD	1.17J		0.0411	2.45	1.02	1.000	1
OCDD	6.49		0.172	4.91	0.87	1.000	1
2,3,7,8-TCDF	ND	U	0.101	0.491			1
1,2,3,7,8-PeCDF	ND	U	0.0694	2.45			1
2,3,4,7,8-PeCDF	ND	U	0.0721	2.45			1
1,2,3,6,7,8-HxCDF	0.0532J		0.0283	2.45	1.12	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.0326	2.45			1
1,2,3,4,7,8-HxCDF	ND	U	0.0265	2.45			1
2,3,4,6,7,8-HxCDF	ND	U	0.0239	2.45			1
1,2,3,4,6,7,8-HpCDF	0.380J		0.0223	2.45	1.19	1.000	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.0281	2.45			1
OCDF	1.66J		0.0773	4.91	0.85	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2200456-01

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.192g

Data File Name: P539595
ICAL Date: 01/18/22

Date Analyzed: 10/14/22 03:14
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539591

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	0.117	0.491			1
Total Penta-Dioxins	ND	U	0.0419	2.45			1
Total Hexa-Dioxins	0.113J		0.0230	2.45	1.09		1
Total Hepta-Dioxins	1.89J		0.0411	2.45	0.92		1
Total Tetra-Furans	ND	U	0.101	0.491			1
Total Penta-Furans	ND	U	0.0707	2.45			1
Total Hexa-Furans	0.488J		0.0276	2.45	1.42		1
Total Hepta-Furans	0.380J		0.0250	2.45	1.19		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2200456-01

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.192g

Data File Name: P539595
ICAL Date: 01/18/22

Date Analyzed: 10/14/22 03:14
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539591

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1123.196	56		40-135	0.78	1.023
13C-1,2,3,7,8-PeCDD	2000	1200.168	60		40-135	1.59	1.199
13C-1,2,3,4,7,8-HxCDD	2000	968.227	48		40-135	1.29	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1138.871	57		40-135	1.28	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1128.106	56		40-135	1.08	1.067
13C-OCDD	4000	1997.676	50		40-135	0.90	1.139
13C-2,3,7,8-TCDF	2000	900.730	45		40-135	0.79	0.992
13C-1,2,3,7,8-PeCDF	2000	1153.851	58		40-135	1.57	1.154
13C-2,3,4,7,8-PeCDF	2000	1091.536	55		40-135	1.59	1.189
13C-1,2,3,4,7,8-HxCDF	2000	1030.467	52		40-135	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	934.889	47		40-135	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1075.852	54		40-135	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1191.867	60		40-135	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	941.528	47		40-135	0.43	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	971.647	49		40-135	0.42	1.080
37Cl-2,3,7,8-TCDD	800	322.278	40		40-135	NA	1.024



Accuracy & Precision

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Analyzed: 10/14/22
Date Extracted: 10/10/22

Duplicate Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method

Units: ng/Kg
Basis: Dry
Analysis Lot: 781379

Lab Control Sample
EQ2200456-02

Duplicate Lab Control Sample
EQ2200456-03

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD	86.8	98.3	88	91.2	98.3	93	70-130	5	25
1,2,3,4,7,8-HxCDD	89.3	98.3	91	89.0	98.3	91	70-130	<1	25
1,2,3,6,7,8-HxCDD	81.3	98.3	83	80.8	98.3	82	70-130	<1	25
1,2,3,7,8,9-HxCDD	90.8	98.3	92	90.5	98.3	92	70-130	<1	25
1,2,3,7,8-PeCDD	83.3	98.3	85	83.4	98.3	85	70-130	<1	25
2,3,7,8-TCDD	13.8	19.7	70	13.9	19.7	71	70-130	<1	25
OCDD	184	197	93	189	197	96	70-130	3	25
1,2,3,4,6,7,8-HpCDF	86.3	98.3	88	89.9	98.3	92	70-130	4	25
1,2,3,4,7,8,9-HpCDF	79.0	98.3	80	77.5	98.3	79	70-130	2	25
1,2,3,4,7,8-HxCDF	78.9	98.3	80	78.9	98.3	80	70-130	<1	25
1,2,3,6,7,8-HxCDF	87.3	98.3	89	85.4	98.3	87	70-130	2	25
1,2,3,7,8,9-HxCDF	79.7	98.3	81	86.9	98.3	88	70-130	9	25
1,2,3,7,8-PeCDF	82.4	98.3	84	82.0	98.3	83	70-130	<1	25
2,3,4,6,7,8-HxCDF	71.1	98.3	72	81.7	98.3	83	70-130	14	25
2,3,4,7,8-PeCDF	88.0	98.3	90	87.6	98.3	89	70-130	<1	25
2,3,7,8-TCDF	15.6	19.7	79	16.2	19.7	83	70-130	4	25
OCDF	176	197	90	183	197	93	70-130	4	25

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2200456-02

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.178g

Data File Name: P539602
ICAL Date: 01/18/22

Date Analyzed: 10/14/22 08:53
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539591

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	13.8		0.241	0.491	0.79	1.001	1
1,2,3,7,8-PeCDD	83.3		0.321	2.46	1.60	1.001	1
1,2,3,6,7,8-HxCDD	81.3		0.527	2.46	1.24	1.000	1
1,2,3,4,7,8-HxCDD	89.3		0.602	2.46	1.24	1.001	1
1,2,3,7,8,9-HxCDD	90.8		0.562	2.46	1.25	1.007	1
1,2,3,4,6,7,8-HpCDD	86.8		0.650	2.46	1.04	1.000	1
OCDD	184		0.701	4.91	0.89	1.000	1
2,3,7,8-TCDF	15.6		0.245	0.491	0.68	1.001	1
1,2,3,7,8-PeCDF	82.4		0.267	2.46	1.49	1.000	1
2,3,4,7,8-PeCDF	88.0		0.266	2.46	1.50	1.000	1
1,2,3,6,7,8-HxCDF	87.3		0.440	2.46	1.18	1.000	1
1,2,3,7,8,9-HxCDF	79.7		0.497	2.46	1.17	1.000	1
1,2,3,4,7,8-HxCDF	78.9		0.408	2.46	1.19	1.000	1
2,3,4,6,7,8-HxCDF	71.1		0.367	2.46	1.21	1.000	1
1,2,3,4,6,7,8-HpCDF	86.3		0.773	2.46	1.00	1.000	1
1,2,3,4,7,8,9-HpCDF	79.0		0.904	2.46	0.96	1.000	1
OCDF	176		0.565	4.91	0.86	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2200456-02

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.178g

Data File Name: P539602
ICAL Date: 01/18/22

Date Analyzed: 10/14/22 08:53
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539591

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	13.8		0.241	0.491	0.79		1
Total Penta-Dioxins	83.3		0.321	2.46	1.60		1
Total Hexa-Dioxins	261		0.562	2.46	1.24		1
Total Hepta-Dioxins	88.6		0.650	2.46	0.95		1
Total Tetra-Furans	15.6		0.245	0.491	0.68		1
Total Penta-Furans	172		0.266	2.46	1.33		1
Total Hexa-Furans	321		0.424	2.46	1.15		1
Total Hepta-Furans	180		0.835	2.46	1.00		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2200456-02

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.178g

Date Analyzed: 10/14/22 08:53
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539591

Data File Name: P539602
ICAL Date: 01/18/22

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1262.127	63		40-135	0.79	1.023
13C-1,2,3,7,8-PeCDD	2000	1620.559	81		40-135	1.59	1.199
13C-1,2,3,4,7,8-HxCDD	2000	1319.778	66		40-135	1.26	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1527.489	76		40-135	1.26	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1520.445	76		40-135	1.05	1.067
13C-OCDD	4000	2845.571	71		40-135	0.89	1.139
13C-2,3,7,8-TCDF	2000	960.493	48		40-135	0.80	0.992
13C-1,2,3,7,8-PeCDF	2000	1452.633	73		40-135	1.58	1.154
13C-2,3,4,7,8-PeCDF	2000	1407.875	70		40-135	1.56	1.189
13C-1,2,3,4,7,8-HxCDF	2000	1342.453	67		40-135	0.51	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1184.861	59		40-135	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1419.090	71		40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1555.612	78		40-135	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1237.331	62		40-135	0.43	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	1344.850	67		40-135	0.42	1.079
37Cl-2,3,7,8-TCDD	800	376.670	47		40-135	NA	1.024

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2200456-03

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.175g

Data File Name: P539600
ICAL Date: 01/18/22

Date Analyzed: 10/14/22 07:16
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539591

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	13.9		0.304	0.491	0.76	1.001	1
1,2,3,7,8-PeCDD	83.4		0.788	2.46	1.58	1.000	1
1,2,3,6,7,8-HxCDD	80.8		1.47	2.46	1.24	1.000	1
1,2,3,4,7,8-HxCDD	89.0		1.70	2.46	1.23	1.000	1
1,2,3,7,8,9-HxCDD	90.5		1.58	2.46	1.24	1.007	1
1,2,3,4,6,7,8-HpCDD	91.2		2.14	2.46	1.04	1.000	1
OCDD	189		1.27	4.91	0.88	1.000	1
2,3,7,8-TCDF	16.2		0.339	0.491	0.71	1.001	1
1,2,3,7,8-PeCDF	82.0		0.589	2.46	1.53	1.000	1
2,3,4,7,8-PeCDF	87.6		0.596	2.46	1.51	1.000	1
1,2,3,6,7,8-HxCDF	85.4		1.12	2.46	1.17	1.000	1
1,2,3,7,8,9-HxCDF	86.9		1.29	2.46	1.23	1.000	1
1,2,3,4,7,8-HxCDF	78.9		1.06	2.46	1.20	1.000	1
2,3,4,6,7,8-HxCDF	81.7		0.947	2.46	1.28	1.000	1
1,2,3,4,6,7,8-HpCDF	89.9		4.50	4.50	1.03	1.000	1
1,2,3,4,7,8,9-HpCDF	77.5		5.39	5.39	1.01	1.000	1
OCDF	183		2.00	4.91	0.87	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2200456-03

Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.175g

Data File Name: P539600
ICAL Date: 01/18/22

Date Analyzed: 10/14/22 07:16
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539591

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	13.9		0.304	0.491	0.76		1
Total Penta-Dioxins	83.4		0.788	2.46	1.58		1
Total Hexa-Dioxins	260		1.57	2.46	1.23		1
Total Hepta-Dioxins	91.2		2.14	2.46	1.04		1
Total Tetra-Furans	16.2		0.339	0.491	0.71		1
Total Penta-Furans	170		0.592	2.46	1.53		1
Total Hexa-Furans	339		1.10	2.46	1.21		1
Total Hepta-Furans	195		4.93	4.93	1.03		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Middletown
Project: 3265649
Sample Matrix: Soil

Service Request: E2200952
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2200456-03

Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290A
Prep Method: Method
Sample Amount: 10.175g
Data File Name: P539600
ICAL Date: 01/18/22

Date Analyzed: 10/14/22 07:16
Date Extracted: 10/10/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: p539595
Cal Ver. File Name: P539591

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1282.797	64		40-135	0.79	1.023
13C-1,2,3,7,8-PeCDD	2000	1642.267	82		40-135	1.59	1.200
13C-1,2,3,4,7,8-HxCDD	2000	1338.015	67		40-135	1.29	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1548.460	77		40-135	1.28	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1562.486	78		40-135	1.08	1.067
13C-OCDD	4000	3002.779	75		40-135	0.87	1.139
13C-2,3,7,8-TCDF	2000	970.304	49		40-135	0.81	0.992
13C-1,2,3,7,8-PeCDF	2000	1479.658	74		40-135	1.57	1.154
13C-2,3,4,7,8-PeCDF	2000	1433.848	72		40-135	1.59	1.189
13C-1,2,3,4,7,8-HxCDF	2000	1353.539	68		40-135	0.52	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1210.180	61		40-135	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1409.820	70		40-135	0.49	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1562.753	78		40-135	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1258.994	63		40-135	0.44	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	1364.985	68		40-135	0.43	1.079
37Cl-2,3,7,8-TCDD	800	380.842	48		40-135	NA	1.024



ANALYTICAL REPORT

Lab Number:	L2253003
Client:	Normandeau Associates, Inc. 600 Beach Road West Haverstraw, NY 10993
ATTN:	Mike Taylor
Phone:	(603) 637-1193
Project Name:	CHPE HUDSON RIVER
Project Number:	24711.001
Report Date:	10/06/22

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: CHPE HUDSON RIVER

Project Number: 24711.001

Lab Number: L2253003

Report Date: 10/06/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2253003-01	POUGH 1A	SEDIMENT	KINGSTON, NY	09/23/22 11:30	09/27/22
L2253003-02	POUGH 1B	SEDIMENT	KINGSTON, NY	09/23/22 11:45	09/27/22
L2253003-03	POUGH 2A	SEDIMENT	KINGSTON, NY	09/23/22 09:20	09/27/22
L2253003-04	POUGH 2B	SEDIMENT	KINGSTON, NY	09/23/22 09:30	09/27/22
L2253003-05	POUGH 3A	SEDIMENT	KINGSTON, NY	09/23/22 12:30	09/27/22
L2253003-06	POUGH 3B	SEDIMENT	KINGSTON, NY	09/23/22 12:45	09/27/22
L2253003-07	POUGH 4A	SEDIMENT	KINGSTON, NY	09/23/22 13:30	09/27/22
L2253003-08	POUGH 4B	SEDIMENT	KINGSTON, NY	09/23/22 13:45	09/27/22
L2253003-09	POUGH 5A	SEDIMENT	KINGSTON, NY	09/23/22 10:20	09/27/22
L2253003-10	POUGH 5B	SEDIMENT	KINGSTON, NY	09/23/22 10:35	09/27/22
L2253003-11	HYDE PARK 1A	SEDIMENT	KINGSTON, NY	09/25/22 12:30	09/27/22
L2253003-12	HYDE PARK 1B	SEDIMENT	KINGSTON, NY	09/25/22 12:40	09/27/22
L2253003-13	HYDE PARK 2A	SEDIMENT	KINGSTON, NY	09/25/22 11:40	09/27/22
L2253003-14	HYDE PARK 2B	SEDIMENT	KINGSTON, NY	09/25/22 11:45	09/27/22
L2253003-15	HYDE PARK 3A	SEDIMENT	KINGSTON, NY	09/25/22 09:55	09/27/22
L2253003-16	HYDE PARK 3B	SEDIMENT	KINGSTON, NY	09/25/22 10:05	09/27/22
L2253003-17	HYDE PARK 4A	SEDIMENT	KINGSTON, NY	09/25/22 09:05	09/27/22
L2253003-18	HYDE PARK 4B	SEDIMENT	KINGSTON, NY	09/25/22 09:15	09/27/22
L2253003-19	HYDE PARK 5A	SEDIMENT	KINGSTON, NY	09/25/22 10:40	09/27/22
L2253003-20	HYDE PARK 5B	SEDIMENT	KINGSTON, NY	09/25/22 10:50	09/27/22

Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22


Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Elizabeth Porta

Title: Technical Director/Representative

Date: 10/06/22

ORGANICS

PCBS

Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-01
 Client ID: POUGH 1A
 Sample Location: KINGSTON, NY

Date Collected: 09/23/22 11:30
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/05/22 18:04
 Analyst: PS
 Percent Solids: 53%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 09:58
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	0.712	J	ug/kg	0.756	0.378	1
CI3-BZ#18	1.35		ug/kg	0.756	0.378	1
CI3-BZ#28	1.67		ug/kg	0.756	0.378	1
CI4-BZ#44	0.906		ug/kg	0.756	0.378	1
CI4-BZ#49	1.11		ug/kg	0.756	0.378	1
CI4-BZ#52	1.74		ug/kg	0.756	0.378	1
CI4-BZ#66	0.723	J	ug/kg	0.756	0.378	1
CI5-BZ#87	ND		ug/kg	0.756	0.378	1
CI5-BZ#101	1.29		ug/kg	0.756	0.378	1
CI5-BZ#105	ND		ug/kg	0.756	0.378	1
CI5-BZ#118	0.412	J	ug/kg	0.756	0.378	1
CI6-BZ#128	ND		ug/kg	0.756	0.378	1
CI6-BZ#138	0.555	J	ug/kg	0.756	0.378	1
CI6-BZ#153	0.503	J	ug/kg	0.756	0.378	1
CI7-BZ#170	ND		ug/kg	0.756	0.378	1
CI7-BZ#180	ND		ug/kg	0.756	0.378	1
CI7-BZ#183	ND		ug/kg	0.756	0.378	1
CI7-BZ#184	ND		ug/kg	0.756	0.378	1
CI7-BZ#187	ND		ug/kg	0.756	0.378	1
CI8-BZ#195	ND		ug/kg	0.756	0.378	1
CI9-BZ#206	0.413	J	ug/kg	0.756	0.378	1
CI10-BZ#209	0.572	J	ug/kg	0.756	0.378	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	51		50-125
BZ 198	75		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-02
 Client ID: POUGH 1B
 Sample Location: KINGSTON, NY

Date Collected: 09/23/22 11:45
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/05/22 18:35
 Analyst: PS
 Percent Solids: 56%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 09:58
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ug/kg	0.704	0.352	1
CI3-BZ#18	ND		ug/kg	0.704	0.352	1
CI3-BZ#28	ND		ug/kg	0.704	0.352	1
CI4-BZ#44	ND		ug/kg	0.704	0.352	1
CI4-BZ#49	ND		ug/kg	0.704	0.352	1
CI4-BZ#52	ND		ug/kg	0.704	0.352	1
CI4-BZ#66	ND		ug/kg	0.704	0.352	1
CI5-BZ#87	ND		ug/kg	0.704	0.352	1
CI5-BZ#101	ND		ug/kg	0.704	0.352	1
CI5-BZ#105	ND		ug/kg	0.704	0.352	1
CI5-BZ#118	ND		ug/kg	0.704	0.352	1
CI6-BZ#128	ND		ug/kg	0.704	0.352	1
CI6-BZ#138	ND		ug/kg	0.704	0.352	1
CI6-BZ#153	ND		ug/kg	0.704	0.352	1
CI7-BZ#170	ND		ug/kg	0.704	0.352	1
CI7-BZ#180	ND		ug/kg	0.704	0.352	1
CI7-BZ#183	ND		ug/kg	0.704	0.352	1
CI7-BZ#184	ND		ug/kg	0.704	0.352	1
CI7-BZ#187	ND		ug/kg	0.704	0.352	1
CI8-BZ#195	ND		ug/kg	0.704	0.352	1
CI9-BZ#206	ND		ug/kg	0.704	0.352	1
CI10-BZ#209	ND		ug/kg	0.704	0.352	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	67		50-125
BZ 198	96		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-03
 Client ID: POUGH 2A
 Sample Location: KINGSTON, NY

Date Collected: 09/23/22 09:20
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/05/22 19:06
 Analyst: PS
 Percent Solids: 61%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 09:58
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	20.8		ug/kg	0.644	0.322	1
CI3-BZ#18	38.8		ug/kg	0.644	0.322	1
CI3-BZ#28	26.7		ug/kg	0.644	0.322	1
CI4-BZ#44	10.4		ug/kg	0.644	0.322	1
CI4-BZ#49	32.1		ug/kg	0.644	0.322	1
CI4-BZ#52	33.5		ug/kg	0.644	0.322	1
CI4-BZ#66	12.8		ug/kg	0.644	0.322	1
CI5-BZ#87	2.28		ug/kg	0.644	0.322	1
CI5-BZ#101	10.2		ug/kg	0.644	0.322	1
CI5-BZ#105	2.14		ug/kg	0.644	0.322	1
CI5-BZ#118	6.20		ug/kg	0.644	0.322	1
CI6-BZ#128	1.16		ug/kg	0.644	0.322	1
CI6-BZ#138	7.37		ug/kg	0.644	0.322	1
CI6-BZ#153	3.76		ug/kg	0.644	0.322	1
CI7-BZ#170	1.16		ug/kg	0.644	0.322	1
CI7-BZ#180	1.67		ug/kg	0.644	0.322	1
CI7-BZ#183	0.403	J	ug/kg	0.644	0.322	1
CI7-BZ#184	ND		ug/kg	0.644	0.322	1
CI7-BZ#187	1.31		ug/kg	0.644	0.322	1
CI8-BZ#195	ND		ug/kg	0.644	0.322	1
CI9-BZ#206	0.828		ug/kg	0.644	0.322	1
CI10-BZ#209	0.533	J	ug/kg	0.644	0.322	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	74		50-125
BZ 198	96		50-125

Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-04
 Client ID: POUGH 2B
 Sample Location: KINGSTON, NY

Date Collected: 09/23/22 09:30
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/05/22 19:38
 Analyst: PS
 Percent Solids: 56%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 09:58
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	0.478	J	ug/kg	0.690	0.345	1
CI3-BZ#18	0.925		ug/kg	0.690	0.345	1
CI3-BZ#28	0.495	J	ug/kg	0.690	0.345	1
CI4-BZ#44	ND		ug/kg	0.690	0.345	1
CI4-BZ#49	0.881		ug/kg	0.690	0.345	1
CI4-BZ#52	0.852		ug/kg	0.690	0.345	1
CI4-BZ#66	ND		ug/kg	0.690	0.345	1
CI5-BZ#87	ND		ug/kg	0.690	0.345	1
CI5-BZ#101	ND		ug/kg	0.690	0.345	1
CI5-BZ#105	ND		ug/kg	0.690	0.345	1
CI5-BZ#118	ND		ug/kg	0.690	0.345	1
CI6-BZ#128	ND		ug/kg	0.690	0.345	1
CI6-BZ#138	ND		ug/kg	0.690	0.345	1
CI6-BZ#153	ND		ug/kg	0.690	0.345	1
CI7-BZ#170	ND		ug/kg	0.690	0.345	1
CI7-BZ#180	ND		ug/kg	0.690	0.345	1
CI7-BZ#183	ND		ug/kg	0.690	0.345	1
CI7-BZ#184	ND		ug/kg	0.690	0.345	1
CI7-BZ#187	ND		ug/kg	0.690	0.345	1
CI8-BZ#195	ND		ug/kg	0.690	0.345	1
CI9-BZ#206	ND		ug/kg	0.690	0.345	1
CI10-BZ#209	ND		ug/kg	0.690	0.345	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	70		50-125
BZ 198	99		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-05
 Client ID: POUGH 3A
 Sample Location: KINGSTON, NY

Date Collected: 09/23/22 12:30
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/05/22 20:09
 Analyst: PS
 Percent Solids: 58%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 09:58
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	3.58		ug/kg	0.683	0.341	1
CI3-BZ#18	6.76		ug/kg	0.683	0.341	1
CI3-BZ#28	7.84		ug/kg	0.683	0.341	1
CI4-BZ#44	3.27		ug/kg	0.683	0.341	1
CI4-BZ#49	7.51		ug/kg	0.683	0.341	1
CI4-BZ#52	8.06		ug/kg	0.683	0.341	1
CI4-BZ#66	3.65		ug/kg	0.683	0.341	1
CI5-BZ#87	0.709		ug/kg	0.683	0.341	1
CI5-BZ#101	2.82		ug/kg	0.683	0.341	1
CI5-BZ#105	0.804		ug/kg	0.683	0.341	1
CI5-BZ#118	1.65		ug/kg	0.683	0.341	1
CI6-BZ#128	ND		ug/kg	0.683	0.341	1
CI6-BZ#138	1.36		ug/kg	0.683	0.341	1
CI6-BZ#153	0.908		ug/kg	0.683	0.341	1
CI7-BZ#170	0.351	J	ug/kg	0.683	0.341	1
CI7-BZ#180	0.377	J	ug/kg	0.683	0.341	1
CI7-BZ#183	ND		ug/kg	0.683	0.341	1
CI7-BZ#184	ND		ug/kg	0.683	0.341	1
CI7-BZ#187	ND		ug/kg	0.683	0.341	1
CI8-BZ#195	ND		ug/kg	0.683	0.341	1
CI9-BZ#206	ND		ug/kg	0.683	0.341	1
CI10-BZ#209	ND		ug/kg	0.683	0.341	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	61		50-125
BZ 198	84		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-06
 Client ID: POUGH 3B
 Sample Location: KINGSTON, NY

Date Collected: 09/23/22 12:45
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/05/22 20:40
 Analyst: PS
 Percent Solids: 58%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ug/kg	0.654	0.327	1
CI3-BZ#18	ND		ug/kg	0.654	0.327	1
CI3-BZ#28	ND		ug/kg	0.654	0.327	1
CI4-BZ#44	ND		ug/kg	0.654	0.327	1
CI4-BZ#49	ND		ug/kg	0.654	0.327	1
CI4-BZ#52	ND		ug/kg	0.654	0.327	1
CI4-BZ#66	ND		ug/kg	0.654	0.327	1
CI5-BZ#87	ND		ug/kg	0.654	0.327	1
CI5-BZ#101	ND		ug/kg	0.654	0.327	1
CI5-BZ#105	ND		ug/kg	0.654	0.327	1
CI5-BZ#118	ND		ug/kg	0.654	0.327	1
CI6-BZ#128	ND		ug/kg	0.654	0.327	1
CI6-BZ#138	ND		ug/kg	0.654	0.327	1
CI6-BZ#153	ND		ug/kg	0.654	0.327	1
CI7-BZ#170	ND		ug/kg	0.654	0.327	1
CI7-BZ#180	ND		ug/kg	0.654	0.327	1
CI7-BZ#183	ND		ug/kg	0.654	0.327	1
CI7-BZ#184	ND		ug/kg	0.654	0.327	1
CI7-BZ#187	ND		ug/kg	0.654	0.327	1
CI8-BZ#195	ND		ug/kg	0.654	0.327	1
CI9-BZ#206	ND		ug/kg	0.654	0.327	1
CI10-BZ#209	ND		ug/kg	0.654	0.327	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	66		50-125
BZ 198	91		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-07
 Client ID: POUGH 4A
 Sample Location: KINGSTON, NY

Date Collected: 09/23/22 13:30
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/05/22 21:12
 Analyst: PS
 Percent Solids: 55%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	3.82		ug/kg	0.715	0.358	1
CI3-BZ#18	3.19		ug/kg	0.715	0.358	1
CI3-BZ#28	3.46		ug/kg	0.715	0.358	1
CI4-BZ#44	1.53		ug/kg	0.715	0.358	1
CI4-BZ#49	2.78		ug/kg	0.715	0.358	1
CI4-BZ#52	2.84		ug/kg	0.715	0.358	1
CI4-BZ#66	1.94		ug/kg	0.715	0.358	1
CI5-BZ#87	0.666	J	ug/kg	0.715	0.358	1
CI5-BZ#101	1.58		ug/kg	0.715	0.358	1
CI5-BZ#105	0.552	J	ug/kg	0.715	0.358	1
CI5-BZ#118	0.987		ug/kg	0.715	0.358	1
CI6-BZ#128	0.388	J	ug/kg	0.715	0.358	1
CI6-BZ#138	1.40		ug/kg	0.715	0.358	1
CI6-BZ#153	0.678	J	ug/kg	0.715	0.358	1
CI7-BZ#170	ND		ug/kg	0.715	0.358	1
CI7-BZ#180	ND		ug/kg	0.715	0.358	1
CI7-BZ#183	ND		ug/kg	0.715	0.358	1
CI7-BZ#184	ND		ug/kg	0.715	0.358	1
CI7-BZ#187	ND		ug/kg	0.715	0.358	1
CI8-BZ#195	ND		ug/kg	0.715	0.358	1
CI9-BZ#206	ND		ug/kg	0.715	0.358	1
CI10-BZ#209	ND		ug/kg	0.715	0.358	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	51		50-125
BZ 198	73		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-08
 Client ID: POUGH 4B
 Sample Location: KINGSTON, NY

Date Collected: 09/23/22 13:45
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/05/22 21:43
 Analyst: PS
 Percent Solids: 53%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ug/kg	0.714	0.357	1
CI3-BZ#18	ND		ug/kg	0.714	0.357	1
CI3-BZ#28	ND		ug/kg	0.714	0.357	1
CI4-BZ#44	ND		ug/kg	0.714	0.357	1
CI4-BZ#49	ND		ug/kg	0.714	0.357	1
CI4-BZ#52	ND		ug/kg	0.714	0.357	1
CI4-BZ#66	ND		ug/kg	0.714	0.357	1
CI5-BZ#87	ND		ug/kg	0.714	0.357	1
CI5-BZ#101	ND		ug/kg	0.714	0.357	1
CI5-BZ#105	ND		ug/kg	0.714	0.357	1
CI5-BZ#118	ND		ug/kg	0.714	0.357	1
CI6-BZ#128	ND		ug/kg	0.714	0.357	1
CI6-BZ#138	ND		ug/kg	0.714	0.357	1
CI6-BZ#153	ND		ug/kg	0.714	0.357	1
CI7-BZ#170	ND		ug/kg	0.714	0.357	1
CI7-BZ#180	ND		ug/kg	0.714	0.357	1
CI7-BZ#183	ND		ug/kg	0.714	0.357	1
CI7-BZ#184	ND		ug/kg	0.714	0.357	1
CI7-BZ#187	ND		ug/kg	0.714	0.357	1
CI8-BZ#195	ND		ug/kg	0.714	0.357	1
CI9-BZ#206	ND		ug/kg	0.714	0.357	1
CI10-BZ#209	ND		ug/kg	0.714	0.357	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	91		50-125
BZ 198	95		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-09
 Client ID: POUGH 5A
 Sample Location: KINGSTON, NY

Date Collected: 09/23/22 10:20
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/05/22 22:14
 Analyst: PS
 Percent Solids: 60%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	74.8		ug/kg	0.625	0.312	1
CI3-BZ#18	142		ug/kg	0.625	0.312	1
CI3-BZ#28	65.4		ug/kg	0.625	0.312	1
CI4-BZ#44	26.2		ug/kg	0.625	0.312	1
CI4-BZ#49	85.2		ug/kg	0.625	0.312	1
CI4-BZ#52	97.6		ug/kg	0.625	0.312	1
CI4-BZ#66	19.5		ug/kg	0.625	0.312	1
CI5-BZ#87	3.93		ug/kg	0.625	0.312	1
CI5-BZ#101	17.6		ug/kg	0.625	0.312	1
CI5-BZ#105	4.13		ug/kg	0.625	0.312	1
CI5-BZ#118	9.80		ug/kg	0.625	0.312	1
CI6-BZ#128	1.70		ug/kg	0.625	0.312	1
CI6-BZ#138	8.51		ug/kg	0.625	0.312	1
CI6-BZ#153	5.30		ug/kg	0.625	0.312	1
CI7-BZ#170	1.58		ug/kg	0.625	0.312	1
CI7-BZ#180	2.40		ug/kg	0.625	0.312	1
CI7-BZ#183	0.599	J	ug/kg	0.625	0.312	1
CI7-BZ#184	ND		ug/kg	0.625	0.312	1
CI7-BZ#187	2.18		ug/kg	0.625	0.312	1
CI8-BZ#195	ND		ug/kg	0.625	0.312	1
CI9-BZ#206	1.14		ug/kg	0.625	0.312	1
CI10-BZ#209	0.378	J	ug/kg	0.625	0.312	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	77		50-125
BZ 198	83		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-10
 Client ID: POUGH 5B
 Sample Location: KINGSTON, NY

Date Collected: 09/23/22 10:35
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/05/22 22:45
 Analyst: PS
 Percent Solids: 58%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	1.32		ug/kg	0.662	0.331	1
CI3-BZ#18	2.78		ug/kg	0.662	0.331	1
CI3-BZ#28	1.23		ug/kg	0.662	0.331	1
CI4-BZ#44	0.660	J	ug/kg	0.662	0.331	1
CI4-BZ#49	1.74		ug/kg	0.662	0.331	1
CI4-BZ#52	1.72		ug/kg	0.662	0.331	1
CI4-BZ#66	0.368	J	ug/kg	0.662	0.331	1
CI5-BZ#87	ND		ug/kg	0.662	0.331	1
CI5-BZ#101	0.383	J	ug/kg	0.662	0.331	1
CI5-BZ#105	ND		ug/kg	0.662	0.331	1
CI5-BZ#118	ND		ug/kg	0.662	0.331	1
CI6-BZ#128	ND		ug/kg	0.662	0.331	1
CI6-BZ#138	ND		ug/kg	0.662	0.331	1
CI6-BZ#153	ND		ug/kg	0.662	0.331	1
CI7-BZ#170	ND		ug/kg	0.662	0.331	1
CI7-BZ#180	ND		ug/kg	0.662	0.331	1
CI7-BZ#183	ND		ug/kg	0.662	0.331	1
CI7-BZ#184	ND		ug/kg	0.662	0.331	1
CI7-BZ#187	ND		ug/kg	0.662	0.331	1
CI8-BZ#195	ND		ug/kg	0.662	0.331	1
CI9-BZ#206	ND		ug/kg	0.662	0.331	1
CI10-BZ#209	ND		ug/kg	0.662	0.331	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	76		50-125
BZ 198	86		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-11
 Client ID: HYDE PARK 1A
 Sample Location: KINGSTON, NY

Date Collected: 09/25/22 12:30
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/05/22 23:17
 Analyst: PS
 Percent Solids: 59%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	21.2		ug/kg	0.655	0.327	1
CI3-BZ#18	74.1		ug/kg	0.655	0.327	1
CI3-BZ#28	82.6		ug/kg	0.655	0.327	1
CI4-BZ#44	31.1		ug/kg	0.655	0.327	1
CI4-BZ#49	57.2		ug/kg	0.655	0.327	1
CI4-BZ#52	67.7		ug/kg	0.655	0.327	1
CI4-BZ#66	39.6		ug/kg	0.655	0.327	1
CI5-BZ#87	7.79		ug/kg	0.655	0.327	1
CI5-BZ#101	35.9		ug/kg	0.655	0.327	1
CI5-BZ#105	7.51		ug/kg	0.655	0.327	1
CI5-BZ#118	23.9		ug/kg	0.655	0.327	1
CI6-BZ#128	6.48		ug/kg	0.655	0.327	1
CI6-BZ#138	24.6		ug/kg	0.655	0.327	1
CI6-BZ#153	19.4		ug/kg	0.655	0.327	1
CI7-BZ#170	4.79		ug/kg	0.655	0.327	1
CI7-BZ#180	6.24		ug/kg	0.655	0.327	1
CI7-BZ#183	1.85		ug/kg	0.655	0.327	1
CI7-BZ#184	ND		ug/kg	0.655	0.327	1
CI7-BZ#187	4.30		ug/kg	0.655	0.327	1
CI8-BZ#195	0.789		ug/kg	0.655	0.327	1
CI9-BZ#206	1.62		ug/kg	0.655	0.327	1
CI10-BZ#209	1.36		ug/kg	0.655	0.327	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	51		50-125
BZ 198	57		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-12
 Client ID: HYDE PARK 1B
 Sample Location: KINGSTON, NY

Date Collected: 09/25/22 12:40
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/05/22 23:48
 Analyst: PS
 Percent Solids: 63%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ug/kg	0.605	0.303	1
CI3-BZ#18	0.745		ug/kg	0.605	0.303	1
CI3-BZ#28	0.634		ug/kg	0.605	0.303	1
CI4-BZ#44	0.353	J	ug/kg	0.605	0.303	1
CI4-BZ#49	0.741		ug/kg	0.605	0.303	1
CI4-BZ#52	0.591	J	ug/kg	0.605	0.303	1
CI4-BZ#66	0.319	J	ug/kg	0.605	0.303	1
CI5-BZ#87	ND		ug/kg	0.605	0.303	1
CI5-BZ#101	0.433	J	ug/kg	0.605	0.303	1
CI5-BZ#105	ND		ug/kg	0.605	0.303	1
CI5-BZ#118	0.310	J	ug/kg	0.605	0.303	1
CI6-BZ#128	ND		ug/kg	0.605	0.303	1
CI6-BZ#138	0.354	J	ug/kg	0.605	0.303	1
CI6-BZ#153	ND		ug/kg	0.605	0.303	1
CI7-BZ#170	ND		ug/kg	0.605	0.303	1
CI7-BZ#180	ND		ug/kg	0.605	0.303	1
CI7-BZ#183	ND		ug/kg	0.605	0.303	1
CI7-BZ#184	ND		ug/kg	0.605	0.303	1
CI7-BZ#187	ND		ug/kg	0.605	0.303	1
CI8-BZ#195	ND		ug/kg	0.605	0.303	1
CI9-BZ#206	ND		ug/kg	0.605	0.303	1
CI10-BZ#209	ND		ug/kg	0.605	0.303	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	59		50-125
BZ 198	61		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-13
 Client ID: HYDE PARK 2A
 Sample Location: KINGSTON, NY

Date Collected: 09/25/22 11:40
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/06/22 00:19
 Analyst: PS
 Percent Solids: 63%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	6.00		ug/kg	0.620	0.310	1
CI3-BZ#18	9.60		ug/kg	0.620	0.310	1
CI3-BZ#28	14.2		ug/kg	0.620	0.310	1
CI4-BZ#44	9.49		ug/kg	0.620	0.310	1
CI4-BZ#49	12.5		ug/kg	0.620	0.310	1
CI4-BZ#52	14.7		ug/kg	0.620	0.310	1
CI4-BZ#66	10.4		ug/kg	0.620	0.310	1
CI5-BZ#87	3.84		ug/kg	0.620	0.310	1
CI5-BZ#101	14.8		ug/kg	0.620	0.310	1
CI5-BZ#105	3.15		ug/kg	0.620	0.310	1
CI5-BZ#118	9.19		ug/kg	0.620	0.310	1
CI6-BZ#128	2.86		ug/kg	0.620	0.310	1
CI6-BZ#138	10.1		ug/kg	0.620	0.310	1
CI6-BZ#153	7.67		ug/kg	0.620	0.310	1
CI7-BZ#170	1.95		ug/kg	0.620	0.310	1
CI7-BZ#180	2.76		ug/kg	0.620	0.310	1
CI7-BZ#183	0.809		ug/kg	0.620	0.310	1
CI7-BZ#184	ND		ug/kg	0.620	0.310	1
CI7-BZ#187	1.82		ug/kg	0.620	0.310	1
CI8-BZ#195	ND		ug/kg	0.620	0.310	1
CI9-BZ#206	3.71		ug/kg	0.620	0.310	1
CI10-BZ#209	6.81		ug/kg	0.620	0.310	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	74		50-125
BZ 198	76		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-14
 Client ID: HYDE PARK 2B
 Sample Location: KINGSTON, NY

Date Collected: 09/25/22 11:45
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/06/22 00:50
 Analyst: PS
 Percent Solids: 64%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ug/kg	0.608	0.304	1
CI3-BZ#18	ND		ug/kg	0.608	0.304	1
CI3-BZ#28	ND		ug/kg	0.608	0.304	1
CI4-BZ#44	ND		ug/kg	0.608	0.304	1
CI4-BZ#49	ND		ug/kg	0.608	0.304	1
CI4-BZ#52	ND		ug/kg	0.608	0.304	1
CI4-BZ#66	ND		ug/kg	0.608	0.304	1
CI5-BZ#87	ND		ug/kg	0.608	0.304	1
CI5-BZ#101	ND		ug/kg	0.608	0.304	1
CI5-BZ#105	ND		ug/kg	0.608	0.304	1
CI5-BZ#118	ND		ug/kg	0.608	0.304	1
CI6-BZ#128	ND		ug/kg	0.608	0.304	1
CI6-BZ#138	ND		ug/kg	0.608	0.304	1
CI6-BZ#153	ND		ug/kg	0.608	0.304	1
CI7-BZ#170	ND		ug/kg	0.608	0.304	1
CI7-BZ#180	ND		ug/kg	0.608	0.304	1
CI7-BZ#183	ND		ug/kg	0.608	0.304	1
CI7-BZ#184	ND		ug/kg	0.608	0.304	1
CI7-BZ#187	ND		ug/kg	0.608	0.304	1
CI8-BZ#195	ND		ug/kg	0.608	0.304	1
CI9-BZ#206	ND		ug/kg	0.608	0.304	1
CI10-BZ#209	ND		ug/kg	0.608	0.304	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	82		50-125
BZ 198	83		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-15
 Client ID: HYDE PARK 3A
 Sample Location: KINGSTON, NY

Date Collected: 09/25/22 09:55
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/06/22 01:22
 Analyst: PS
 Percent Solids: 65%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	12.1		ug/kg	0.600	0.300	1
CI3-BZ#18	42.4		ug/kg	0.600	0.300	1
CI3-BZ#28	52.4		ug/kg	0.600	0.300	1
CI4-BZ#44	20.0		ug/kg	0.600	0.300	1
CI4-BZ#49	37.8		ug/kg	0.600	0.300	1
CI4-BZ#52	47.3		ug/kg	0.600	0.300	1
CI4-BZ#66	25.5		ug/kg	0.600	0.300	1
CI5-BZ#87	6.02		ug/kg	0.600	0.300	1
CI5-BZ#101	27.8		ug/kg	0.600	0.300	1
CI5-BZ#105	5.43		ug/kg	0.600	0.300	1
CI5-BZ#118	17.7		ug/kg	0.600	0.300	1
CI6-BZ#128	4.90		ug/kg	0.600	0.300	1
CI6-BZ#138	19.4		ug/kg	0.600	0.300	1
CI6-BZ#153	15.1		ug/kg	0.600	0.300	1
CI7-BZ#170	3.20		ug/kg	0.600	0.300	1
CI7-BZ#180	4.99		ug/kg	0.600	0.300	1
CI7-BZ#183	1.51		ug/kg	0.600	0.300	1
CI7-BZ#184	ND		ug/kg	0.600	0.300	1
CI7-BZ#187	3.21		ug/kg	0.600	0.300	1
CI8-BZ#195	0.535	J	ug/kg	0.600	0.300	1
CI9-BZ#206	3.79		ug/kg	0.600	0.300	1
CI10-BZ#209	4.47		ug/kg	0.600	0.300	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	58		50-125
BZ 198	64		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-16
 Client ID: HYDE PARK 3B
 Sample Location: KINGSTON, NY

Date Collected: 09/25/22 10:05
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/06/22 01:53
 Analyst: PS
 Percent Solids: 63%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	0.311	J	ug/kg	0.619	0.310	1
CI3-BZ#18	0.494	J	ug/kg	0.619	0.310	1
CI3-BZ#28	0.513	J	ug/kg	0.619	0.310	1
CI4-BZ#44	ND		ug/kg	0.619	0.310	1
CI4-BZ#49	0.541	J	ug/kg	0.619	0.310	1
CI4-BZ#52	0.818		ug/kg	0.619	0.310	1
CI4-BZ#66	ND		ug/kg	0.619	0.310	1
CI5-BZ#87	ND		ug/kg	0.619	0.310	1
CI5-BZ#101	0.471	J	ug/kg	0.619	0.310	1
CI5-BZ#105	ND		ug/kg	0.619	0.310	1
CI5-BZ#118	ND		ug/kg	0.619	0.310	1
CI6-BZ#128	ND		ug/kg	0.619	0.310	1
CI6-BZ#138	0.730		ug/kg	0.619	0.310	1
CI6-BZ#153	ND		ug/kg	0.619	0.310	1
CI7-BZ#170	ND		ug/kg	0.619	0.310	1
CI7-BZ#180	ND		ug/kg	0.619	0.310	1
CI7-BZ#183	ND		ug/kg	0.619	0.310	1
CI7-BZ#184	ND		ug/kg	0.619	0.310	1
CI7-BZ#187	ND		ug/kg	0.619	0.310	1
CI8-BZ#195	ND		ug/kg	0.619	0.310	1
CI9-BZ#206	ND		ug/kg	0.619	0.310	1
CI10-BZ#209	ND		ug/kg	0.619	0.310	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	53		50-125
BZ 198	53		50-125

Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-17
 Client ID: HYDE PARK 4A
 Sample Location: KINGSTON, NY

Date Collected: 09/25/22 09:05
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/06/22 02:24
 Analyst: PS
 Percent Solids: 60%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	61.4		ug/kg	0.642	0.321	1
CI3-BZ#18	181		ug/kg	0.642	0.321	1
CI3-BZ#28	193		ug/kg	0.642	0.321	1
CI4-BZ#44	55.8		ug/kg	0.642	0.321	1
CI4-BZ#49	137		ug/kg	0.642	0.321	1
CI4-BZ#52	152		ug/kg	0.642	0.321	1
CI4-BZ#66	71.2		ug/kg	0.642	0.321	1
CI5-BZ#87	11.7		ug/kg	0.642	0.321	1
CI5-BZ#101	55.0		ug/kg	0.642	0.321	1
CI5-BZ#105	11.8		ug/kg	0.642	0.321	1
CI5-BZ#118	36.0		ug/kg	0.642	0.321	1
CI6-BZ#128	8.67		ug/kg	0.642	0.321	1
CI6-BZ#138	33.0		ug/kg	0.642	0.321	1
CI6-BZ#153	26.2		ug/kg	0.642	0.321	1
CI7-BZ#170	6.82		ug/kg	0.642	0.321	1
CI7-BZ#180	8.60		ug/kg	0.642	0.321	1
CI7-BZ#183	2.26		ug/kg	0.642	0.321	1
CI7-BZ#184	ND		ug/kg	0.642	0.321	1
CI7-BZ#187	6.84		ug/kg	0.642	0.321	1
CI8-BZ#195	1.21		ug/kg	0.642	0.321	1
CI9-BZ#206	2.69		ug/kg	0.642	0.321	1
CI10-BZ#209	1.71		ug/kg	0.642	0.321	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	69		50-125
BZ 198	67		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-18
 Client ID: HYDE PARK 4B
 Sample Location: KINGSTON, NY

Date Collected: 09/25/22 09:15
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/06/22 02:55
 Analyst: PS
 Percent Solids: 62%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	1.14		ug/kg	0.598	0.299	1
CI3-BZ#18	3.35		ug/kg	0.598	0.299	1
CI3-BZ#28	3.10		ug/kg	0.598	0.299	1
CI4-BZ#44	1.27		ug/kg	0.598	0.299	1
CI4-BZ#49	2.79		ug/kg	0.598	0.299	1
CI4-BZ#52	2.78		ug/kg	0.598	0.299	1
CI4-BZ#66	1.21		ug/kg	0.598	0.299	1
CI5-BZ#87	ND		ug/kg	0.598	0.299	1
CI5-BZ#101	1.27		ug/kg	0.598	0.299	1
CI5-BZ#105	ND		ug/kg	0.598	0.299	1
CI5-BZ#118	1.08		ug/kg	0.598	0.299	1
CI6-BZ#128	ND		ug/kg	0.598	0.299	1
CI6-BZ#138	0.867		ug/kg	0.598	0.299	1
CI6-BZ#153	0.610		ug/kg	0.598	0.299	1
CI7-BZ#170	ND		ug/kg	0.598	0.299	1
CI7-BZ#180	ND		ug/kg	0.598	0.299	1
CI7-BZ#183	ND		ug/kg	0.598	0.299	1
CI7-BZ#184	ND		ug/kg	0.598	0.299	1
CI7-BZ#187	ND		ug/kg	0.598	0.299	1
CI8-BZ#195	ND		ug/kg	0.598	0.299	1
CI9-BZ#206	ND		ug/kg	0.598	0.299	1
CI10-BZ#209	ND		ug/kg	0.598	0.299	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	72		50-125
BZ 198	71		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-19
 Client ID: HYDE PARK 5A
 Sample Location: KINGSTON, NY

Date Collected: 09/25/22 10:40
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/06/22 03:27
 Analyst: PS
 Percent Solids: 61%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ug/kg	0.652	0.326	1
CI3-BZ#18	ND		ug/kg	0.652	0.326	1
CI3-BZ#28	ND		ug/kg	0.652	0.326	1
CI4-BZ#44	ND		ug/kg	0.652	0.326	1
CI4-BZ#49	ND		ug/kg	0.652	0.326	1
CI4-BZ#52	ND		ug/kg	0.652	0.326	1
CI4-BZ#66	ND		ug/kg	0.652	0.326	1
CI5-BZ#87	ND		ug/kg	0.652	0.326	1
CI5-BZ#101	ND		ug/kg	0.652	0.326	1
CI5-BZ#105	ND		ug/kg	0.652	0.326	1
CI5-BZ#118	ND		ug/kg	0.652	0.326	1
CI6-BZ#128	ND		ug/kg	0.652	0.326	1
CI6-BZ#138	ND		ug/kg	0.652	0.326	1
CI6-BZ#153	ND		ug/kg	0.652	0.326	1
CI7-BZ#170	ND		ug/kg	0.652	0.326	1
CI7-BZ#180	ND		ug/kg	0.652	0.326	1
CI7-BZ#183	ND		ug/kg	0.652	0.326	1
CI7-BZ#184	ND		ug/kg	0.652	0.326	1
CI7-BZ#187	ND		ug/kg	0.652	0.326	1
CI8-BZ#195	ND		ug/kg	0.652	0.326	1
CI9-BZ#206	ND		ug/kg	0.652	0.326	1
CI10-BZ#209	ND		ug/kg	0.652	0.326	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	71		50-125
BZ 198	73		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-20
 Client ID: HYDE PARK 5B
 Sample Location: KINGSTON, NY

Date Collected: 09/25/22 10:50
 Date Received: 09/27/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Sediment
 Analytical Method: 105,8270E-SIM/680(M)
 Analytical Date: 10/06/22 11:29
 Analyst: PS
 Percent Solids: 60%

Extraction Method: EPA 3570
 Extraction Date: 10/02/22 13:30
 Cleanup Method: EPA 3630
 Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Congeners (NOAA List) - Mansfield Lab						
CI2-BZ#8	ND		ug/kg	0.612	0.306	1
CI3-BZ#18	ND		ug/kg	0.612	0.306	1
CI3-BZ#28	ND		ug/kg	0.612	0.306	1
CI4-BZ#44	ND		ug/kg	0.612	0.306	1
CI4-BZ#49	ND		ug/kg	0.612	0.306	1
CI4-BZ#52	ND		ug/kg	0.612	0.306	1
CI4-BZ#66	ND		ug/kg	0.612	0.306	1
CI5-BZ#87	ND		ug/kg	0.612	0.306	1
CI5-BZ#101	ND		ug/kg	0.612	0.306	1
CI5-BZ#105	ND		ug/kg	0.612	0.306	1
CI5-BZ#118	ND		ug/kg	0.612	0.306	1
CI6-BZ#128	ND		ug/kg	0.612	0.306	1
CI6-BZ#138	ND		ug/kg	0.612	0.306	1
CI6-BZ#153	ND		ug/kg	0.612	0.306	1
CI7-BZ#170	ND		ug/kg	0.612	0.306	1
CI7-BZ#180	ND		ug/kg	0.612	0.306	1
CI7-BZ#183	ND		ug/kg	0.612	0.306	1
CI7-BZ#184	ND		ug/kg	0.612	0.306	1
CI7-BZ#187	ND		ug/kg	0.612	0.306	1
CI8-BZ#195	ND		ug/kg	0.612	0.306	1
CI9-BZ#206	ND		ug/kg	0.612	0.306	1
CI10-BZ#209	ND		ug/kg	0.612	0.306	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
DBOB	75		50-125
BZ 198	68		50-125



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 105,8270E-SIM/680(M)
Analytical Date: 10/05/22 16:31
Analyst: PS

Extraction Method: EPA 3570
Extraction Date: 10/02/22 09:58
Cleanup Method: EPA 3630
Cleanup Date: 10/03/22

Parameter	Result	Qualifier	Units	RL	MDL
PCB Congeners (NOAA List) - Mansfield Lab for sample(s): 01-20 Batch: WG1694522-1					
CI2-BZ#8	ND		ug/kg	0.400	0.200
CI3-BZ#18	ND		ug/kg	0.400	0.200
CI3-BZ#28	ND		ug/kg	0.400	0.200
CI4-BZ#44	ND		ug/kg	0.400	0.200
CI4-BZ#49	ND		ug/kg	0.400	0.200
CI4-BZ#52	ND		ug/kg	0.400	0.200
CI4-BZ#66	ND		ug/kg	0.400	0.200
CI5-BZ#87	ND		ug/kg	0.400	0.200
CI5-BZ#101	ND		ug/kg	0.400	0.200
CI5-BZ#105	ND		ug/kg	0.400	0.200
CI5-BZ#118	ND		ug/kg	0.400	0.200
CI6-BZ#128	ND		ug/kg	0.400	0.200
CI6-BZ#138	ND		ug/kg	0.400	0.200
CI6-BZ#153	ND		ug/kg	0.400	0.200
CI7-BZ#170	ND		ug/kg	0.400	0.200
CI7-BZ#180	ND		ug/kg	0.400	0.200
CI7-BZ#183	ND		ug/kg	0.400	0.200
CI7-BZ#184	ND		ug/kg	0.400	0.200
CI7-BZ#187	ND		ug/kg	0.400	0.200
CI8-BZ#195	ND		ug/kg	0.400	0.200
CI9-BZ#206	ND		ug/kg	0.400	0.200
CI10-BZ#209	ND		ug/kg	0.400	0.200

Surrogate	%Recovery	Qualifier	Acceptance Criteria
DBOB	66		50-125
BZ 198	107		50-125



Lab Control Sample Analysis

Batch Quality Control

Project Name: CHPE HUDSON RIVER

Lab Number: L2253003

Project Number: 24711.001

Report Date: 10/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Congeners (NOAA List) - Mansfield Lab Associated sample(s): 01-20 Batch: WG1694522-2 WG1694522-3								
Cl2-BZ#8	82		77		40-140	6		30
Cl3-BZ#18	81		76		40-140	6		30
Cl3-BZ#28	87		82		40-140	6		30
Cl4-BZ#44	89		84		40-140	6		30
Cl4-BZ#49	87		79		40-140	10		30
Cl4-BZ#52	87		83		40-140	5		30
Cl4-BZ#66	89		83		40-140	7		30
Cl5-BZ#87	89		83		40-140	7		30
Cl5-BZ#101	88		82		40-140	7		30
Cl5-BZ#105	92		84		40-140	9		30
Cl5-BZ#118	88		82		40-140	7		30
Cl6-BZ#128	92		86		40-140	7		30
Cl6-BZ#138	90		83		40-140	8		30
Cl6-BZ#153	90		84		40-140	7		30
Cl7-BZ#170	94		88		40-140	7		30
Cl7-BZ#180	86		78		40-140	10		30
Cl7-BZ#183	87		80		40-140	8		30
Cl7-BZ#184	87		80		40-140	8		30
Cl7-BZ#187	89		83		40-140	7		30
Cl8-BZ#195	93		86		40-140	8		30
Cl9-BZ#206	92		85		40-140	8		30
Cl10-BZ#209	95		89		40-140	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
PCB Congeners (NOAA List) - Mansfield Lab Associated sample(s): 01-20 Batch: WG1694522-2 WG1694522-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
DBOB	69		70		50-125
BZ 198	120		107		50-125



INORGANICS & MISCELLANEOUS

Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-01
Client ID: POUGH 1A
Sample Location: KINGSTON, NY

Date Collected: 09/23/22 11:30
Date Received: 09/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	52.7		%	0.100	0.100	1	-	09/30/22 16:10	121,2540G	VM



Project Name: CHPE HUDSON RIVER**Lab Number:** L2253003**Project Number:** 24711.001**Report Date:** 10/06/22**SAMPLE RESULTS**

Lab ID: L2253003-02

Date Collected: 09/23/22 11:45

Client ID: POUGH 1B

Date Received: 09/27/22

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	56.0		%	0.100	0.100	1	-	09/30/22 16:10	121,2540G	VM



Project Name: CHPE HUDSON RIVER

Lab Number: L2253003

Project Number: 24711.001

Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-03

Date Collected: 09/23/22 09:20

Client ID: POUGH 2A

Date Received: 09/27/22

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	61.4		%	0.100	0.100	1	-	09/30/22 16:10	121,2540G	VM



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-04
Client ID: POUGH 2B
Sample Location: KINGSTON, NY

Date Collected: 09/23/22 09:30
Date Received: 09/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	56.4		%	0.100	0.100	1	-	09/30/22 16:10	121,2540G	VM



Project Name: CHPE HUDSON RIVER

Lab Number: L2253003

Project Number: 24711.001

Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-05

Date Collected: 09/23/22 12:30

Client ID: POUGH 3A

Date Received: 09/27/22

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	58.3		%	0.100	0.100	1	-	09/30/22 16:10	121,2540G	VM



Project Name: CHPE HUDSON RIVER

Lab Number: L2253003

Project Number: 24711.001

Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-06

Date Collected: 09/23/22 12:45

Client ID: POUGH 3B

Date Received: 09/27/22

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	58.2		%	0.100	0.100	1	-	09/30/22 16:10	121,2540G	VM



Project Name: CHPE HUDSON RIVER

Lab Number: L2253003

Project Number: 24711.001

Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-07

Date Collected: 09/23/22 13:30

Client ID: POUGH 4A

Date Received: 09/27/22

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	55.0		%	0.100	0.100	1	-	09/30/22 16:10	121,2540G	VM



Project Name: CHPE HUDSON RIVER

Lab Number: L2253003

Project Number: 24711.001

Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-08

Date Collected: 09/23/22 13:45

Client ID: POUGH 4B

Date Received: 09/27/22

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	53.2		%	0.100	0.100	1	-	09/30/22 16:10	121,2540G	VM



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-09
Client ID: POUGH 5A
Sample Location: KINGSTON, NY

Date Collected: 09/23/22 10:20
Date Received: 09/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	60.2		%	0.100	0.100	1	-	09/30/22 16:10	121,2540G	VM



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-10
Client ID: POUGH 5B
Sample Location: KINGSTON, NY

Date Collected: 09/23/22 10:35
Date Received: 09/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	57.8		%	0.100	0.100	1	-	09/30/22 16:10	121,2540G	VM



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-11
Client ID: HYDE PARK 1A
Sample Location: KINGSTON, NY

Date Collected: 09/25/22 12:30
Date Received: 09/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	59.2		%	0.100	0.100	1	-	09/30/22 16:10	121,2540G	VM



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-12
Client ID: HYDE PARK 1B
Sample Location: KINGSTON, NY

Date Collected: 09/25/22 12:40
Date Received: 09/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	63.0		%	0.100	0.100	1	-	09/30/22 16:10	121,2540G	VM



Project Name: CHPE HUDSON RIVER

Lab Number: L2253003

Project Number: 24711.001

Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-13

Date Collected: 09/25/22 11:40

Client ID: HYDE PARK 2A

Date Received: 09/27/22

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	62.7		%	0.100	0.100	1	-	10/04/22 14:35	121,2540G	VM



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-14
Client ID: HYDE PARK 2B
Sample Location: KINGSTON, NY

Date Collected: 09/25/22 11:45
Date Received: 09/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	63.6		%	0.100	0.100	1	-	10/04/22 14:35	121,2540G	VM



Project Name: CHPE HUDSON RIVER

Lab Number: L2253003

Project Number: 24711.001

Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-15

Date Collected: 09/25/22 09:55

Client ID: HYDE PARK 3A

Date Received: 09/27/22

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	65.0		%	0.100	0.100	1	-	10/04/22 14:35	121,2540G	VM



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-16
Client ID: HYDE PARK 3B
Sample Location: KINGSTON, NY

Date Collected: 09/25/22 10:05
Date Received: 09/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	63.0		%	0.100	0.100	1	-	10/04/22 14:35	121,2540G	VM



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-17
Client ID: HYDE PARK 4A
Sample Location: KINGSTON, NY

Date Collected: 09/25/22 09:05
Date Received: 09/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	60.0		%	0.100	0.100	1	-	10/04/22 14:35	121,2540G	VM



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-18
Client ID: HYDE PARK 4B
Sample Location: KINGSTON, NY

Date Collected: 09/25/22 09:15
Date Received: 09/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	62.2		%	0.100	0.100	1	-	10/04/22 14:35	121,2540G	VM



Project Name: CHPE HUDSON RIVER

Lab Number: L2253003

Project Number: 24711.001

Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-19

Date Collected: 09/25/22 10:40

Client ID: HYDE PARK 5A

Date Received: 09/27/22

Sample Location: KINGSTON, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	60.8		%	0.100	0.100	1	-	10/04/22 14:35	121,2540G	VM



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2253003-20
Client ID: HYDE PARK 5B
Sample Location: KINGSTON, NY

Date Collected: 09/25/22 10:50
Date Received: 09/27/22
Field Prep: Not Specified

Sample Depth:
Matrix: Sediment

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	59.9		%	0.100	0.100	1	-	10/04/22 14:35	121,2540G	VM



Lab Duplicate Analysis *Batch Quality Control*

Project Name: CHPE HUDSON RIVER

Project Number: 24711.001

Lab Number: L2253003

Report Date: 10/06/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01-12 QC Batch ID: WG1694176-1 QC Sample: L2253003-03 Client ID: POUGH 2A						
Solids, Total	61.4	61.4	%	0		10
General Chemistry - Mansfield Lab Associated sample(s): 13-20 QC Batch ID: WG1695304-1 QC Sample: L2253636-10 Client ID: DUP Sample						
Solids, Total	91.1	90.0	%	1		10



Serial_No:10062216:59
Lab Number: L2253003
Report Date: 10/06/22

Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Cooler Information
Cooler A
Custody Seal Present/Intact

Container Information		Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type							
L2253003-01A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-02A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-03A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-04A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-05A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-06A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-07A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-08A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-09A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-10A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-11A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-12A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-13A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-14A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-15A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-16A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-17A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-18A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-19A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)
L2253003-20A	Glass 250ml/8oz unpreserved	NA	6.0	6.0	Y	Present/Intact		A2-TS(7),A2-PCBCONG-8270-NOAA(14)



*Values in parentheses indicate holding time in days

Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

Data Qualifiers

Identified Compounds (TICs).

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: CHPE HUDSON RIVER
Project Number: 24711.001

Lab Number: L2253003
Report Date: 10/06/22

REFERENCES

- 105 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997 in conjunction with NOAA Technical Memorandum NMFS-NWFSC-59: Extraction, Cleanup and GC/MS Analysis of Sediments and Tissues for Organic Contaminants, March 2004 and the Determination of Pesticides and PCBs in Water and Oil/Sediment by GC/MS: Method 680, EPA 01A0005295, November 1985.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL 508-896-8220
FAX 508-891-9151

Mansfield, MA 02048
320 Forbes Blvd
TEL 508-822-9300
FAX 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page

1 of 2

Date Rec'd
In Lab

9/27/22

ALPHA Job #

L2253003

Project Information

Project Name: **CHPE Hudson River**
Project Location: **Kingston, NY**
Project # **247H.001 Task 10**
(Use Project name as Project #)
Project Manager: **Mike Mettler**
ALPHAQuote #: **16943**

Deliverables

ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other

Billing Information

Same as Client Info
PC # **24711.001**

Client Information

Client: **Normandeau**
Address: **400 Old Reading Stowe, PA 19464 PHO**
Phone: **717-617-7076**
Fax:
Email: **DNAZARIO@Norman**

Turn-Around Time

Standard Rush (only if pre approved)
Due Date:
of Days:

Regulatory Requirement

NY TOGS NY Part 375
 AWO Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
 NJ NY
 Other

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

PCB Cong (22) NDAA by 8270 (M)

Please specify Metals or TAL.

ANALYSIS

PCB Congeners
NDAA 22
8270 D-SIM
/680 (M)

Sample Filtration

Done
 Lab to do
Preservation
 Lab to do

(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
2003-01	POUGH 1A	9/23/22	1130	Soil	NAF
-02	1B				
-03	2A		1145		
-04	2B		0920		
-05	3A		0930		
-06	3B		1230		
-07	4A		1245		
-08	4B		1330		
-09	4B		1345		
-29	5A		1020		
-10	5B		1035		

Westboro: Certification No: MA935
Mansfield: Certification No: MA015


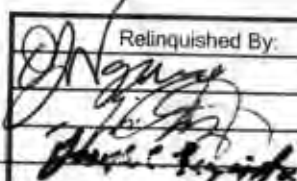
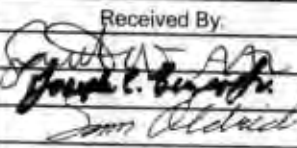
Container Type **GL**

Preservative **-**

- Preservative Code:**
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other
- Container Code:**
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	9/26/22 1530	<i>[Signature]</i>	9/27/22 10:09
<i>[Signature]</i>	9-27-22 14:54	<i>[Signature]</i>	9/27/22 1454
<i>[Signature]</i>	9/27/22 1556	<i>[Signature]</i>	9/27/22 15:56

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr TEL: 508-898-9220 FAX: 508-898-8180	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 2 of 2	Date Rec'd In Lab 9/27/22	ALPHA Job # L2253053		
		Project Information Project Name: CHPE Hudson River Project Location: Kingston, NY Project # 24711.001 TASK 10 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client info PO # 24711.001	
Client Information Client: Normandeau Address: 400 Old Reading Pike Stowe, PA 19484 Phone: 717-617-7076 Fax: Email: DNazaris@Normandeau.com		Project Manager: Mike Mettler ALPHAQuote #: 16943 Turn-Around Time .com Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other	
These samples have been previously analyzed by Alpha <input type="checkbox"/>							
Other project specific requirements/comments: PCB Congeners NOAA 22 8270D-SIM/680 (M)							
Please specify Metals or TAL.							
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS PCB Congeners NOAA 22 8270D-SIM /680 (M)	Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments
		Date	Time				
3003-01	Hyde Park 1A	9/25/22	1230	Soil	NAF		
-02	1B		1240				
-03	2A		1140				
-04	2B		1145				
-15	3A		0955				
-16	3B		1005				
-17	4A		0905				
-18	4B		0915				
-19	5A		1040				
-20	5B		1050				
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₅ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type GL Preservative -	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
Relinquished By: 		Date/Time 9/26/22 1530 9-27-22 14:54 9/27/22 1556		Received By: 		Date/Time 9/27/22 1605 9/27/22 1454 9/27/22 1556	

CUSTODY SEAL (C)
DATE 9/25/08
SIGNATURE [Signature]

REC
Quality Environmental Center
800-255-3950 • www.qecusa.com

125

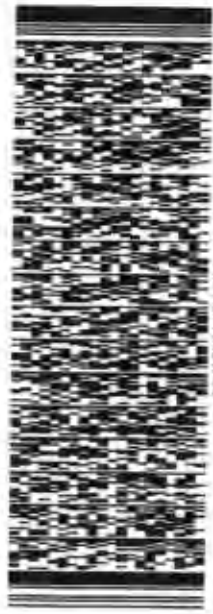
ORIGIN ID: OICA (717) 817-7076
 DONALD NAZARIO - RM 159
 NORMANDEAU CO QUALITY INN
 114 ROUTE 28
 KINGSTON
 KINGSTON, NY 12401
 UNITED STATES US

SHIP DATE: 26SEP22
 ACT WT: 50.00 LB
 CAD: 5720875/MNET 4530
 DIMS: 23x14x14 IN
 BILL SENDER

TO **SAMPLE RECEIPT**
ALPHA ANALYTICAL
8 WALKUP DRIVE

WESTBOROUGH MA 01581
 (508) 998-9220 REF: 24271007/MNSN10 DJN

NY DEPT



TRK# 7700 3014 2085
 0201

TUE - 27 SEP 10:30A
 PRIORITY OVERNIGHT

EM BBFA

01581
 MA-US BOS



5111E020F02

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of the label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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Field Data Sheets

FIELD DATA SHEET

Project Name: CHPE Hudson River	Proj. #: 24711.00/
Site Name: Hudson River	Task #: 10
City: Poughkeepsie State: NY	Date: 9/24/22

Field Team Leader(s): MW Field Team Safety Coordinator: MW
 Field Crew: Don CRB Arrival & Departure Times: 0839 - 0900
 Station ID #: HYDE PARK 5 Weather: Clear Cloudy Rain Temp -
 Photos: Y N File Name: - Wind Conditions (Speed/Direction): 0-10 NW

FIELD DATA

Water Depth: 70 ft. Tide: Ebb Flood Low Slack High Slack Other N/A
 PID: N/A Redox Potential: N/A pH: N/A H₂O Temp.: N/A Air Temp.: NA

SAMPLE/PUSH #1

Core ID#: HYDE 5 Coring Time: 0853 Penetration Depth: 10 ft. Core Recovery: 9 ft
 Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
 Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Decconned or Replaced: Y N

SAMPLE/PUSH #2

Core ID#: _____ Coring Time: _____ Penetration Depth: _____ ft. Core Recovery: _____ ft
 Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
 Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Decconned or Replaced: Y N

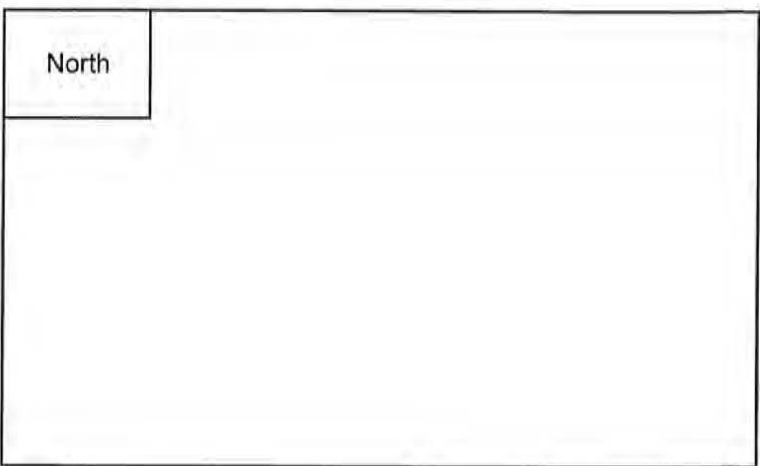
SAMPLE/PUSH #3

Core ID#: _____ Coring Time: _____ Penetration Depth: _____ ft. Core Recovery: _____ ft
 Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
 Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Decconned or Replaced: Y N

DGPS DATA

Operator: MW Coordinate Units: Lat/Lon Feet
 File Name: HYDE 5 Datum: Y N Other WGS84
 Lat / N: 41.77140914 Proj.:
 Lon / E: 73.95231367 GPS GeoXH 6000 Series S/N# 5108400788 Serial #:
 PDOP or SVs: 9

COMMENTS / NOTES



Feet of Tubing 10
 Preparer's Initial: MW

FIELD DATA SHEET

Project Name: CHPE Hudson River	Proj. #: 247#1001
Site Name: Hudson River	Task #: 10
City: Poughkeepsie State: NY	Date: 9/24/22

Field Team Leader(s): MM Field Team Safety Coordinator: MM
 Field Crew: DN CR Arrival & Departure Times: 0909-0930
 Station ID #: HYDE PARK 4 Weather: Clear Cloudy Rain Temp -
 Photos: Y N File Name: - Wind Conditions (Speed/Direction): 5-10 NW

FIELD DATA

Water Depth: 61 ft. Tide: Ebb Flood Low Slack High Slack Other N/A
 PID: N/A Redox Potential: N/A pH: N/A H²O Temp.: N/A Air Temp.: NA

SAMPLE/PUSH #1
 Core ID#: HYDE 4 Coring Time: 0921 Penetration Depth: 10 ft. Core Recovery: 9' 3" ft
 Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
 Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Decconned or Replaced: Y N

SAMPLE/PUSH #2
 Core ID#: _____ Coring Time: _____ Penetration Depth: _____ ft. Core Recovery: _____ ft
 Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
 Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Decconned or Replaced: Y N

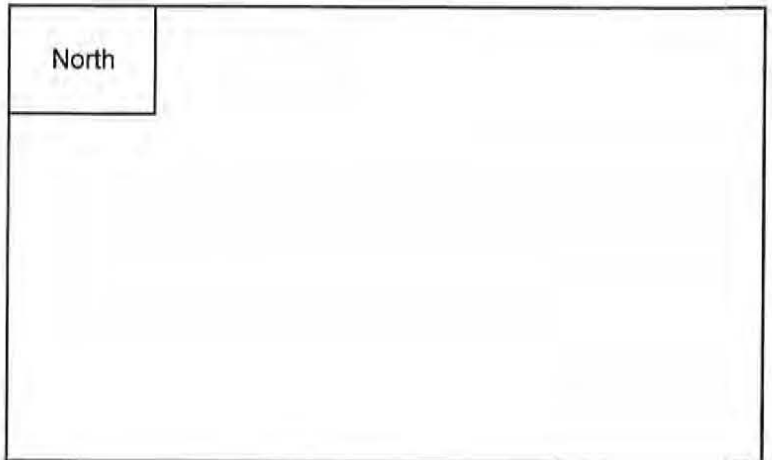
SAMPLE/PUSH #3
 Core ID#: _____ Coring Time: _____ Penetration Depth: _____ ft. Core Recovery: _____ ft
 Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
 Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Decconned or Replaced: Y N

DGPS DATA

Operator: MM
 File Name: 174124
 Lat / N: 41.77323133
 Lon / E: 73.95245722
 PDOP or SVs: 15

Coordinate Units: Lat/Lon Feet
 Datum: Y N Other WGS84
 Proj.:
 GPS GeoXH 6000 Series S/N# 5108400788 Serial #:

COMMENTS / NOTES



Feet of Tubing 10
 Preparer's Initial: MM

FIELD DATA SHEET

Project Name: CHPE Hudson River	Proj. #: 24711.001
Site Name: Hudson River	Task #: 10
City: Poughkeepsie State: NY	Date: 9/24/22

Field Team Leader(s): MM Field Team Safety Coordinator: MM
Field Crew: DW CLB Arrival & Departure Times: 0941 - 1000
Station ID #: HYDE PARK 1 Weather: Clear Cloudy Rain Temp -
Photos: Y (N) File Name: - Wind Conditions (Speed/Direction): 10-15 NW

FIELD DATA
Water Depth: 56 ft. Tide: Ebb Flood Low Slack High Slack Other N/A
PID: N/A Redox Potential: N/A pH: N/A H₂O Temp.: N/A Air Temp.: NA

SAMPLE/PUSH #1
Core ID#: HYDE 1 Coring Time: 0952 Penetration Depth: 10 ft. Core Recovery: 9' 3" ft
Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Decconned or Replaced: Y N

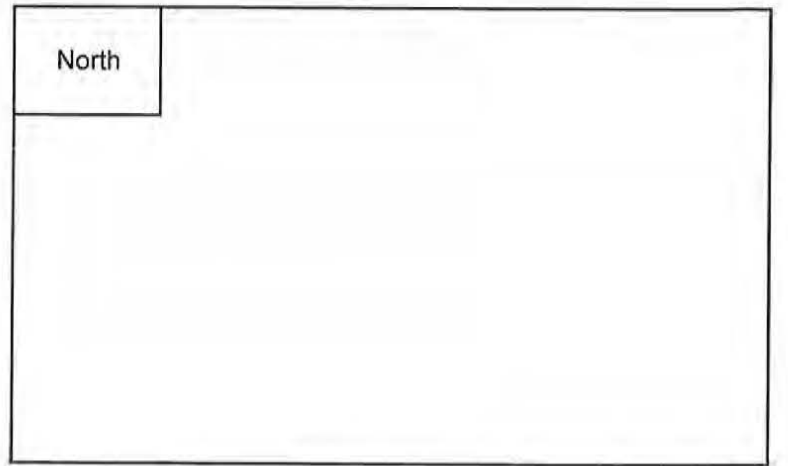
SAMPLE/PUSH #2
Core ID#: _____ Coring Time: _____ Penetration Depth: _____ ft. Core Recovery: _____ ft
Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Decconned or Replaced: Y N

SAMPLE/PUSH #3
Core ID#: _____ Coring Time: _____ Penetration Depth: _____ ft. Core Recovery: _____ ft
Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Decconned or Replaced: Y N

DGPS DATA
Operator: MM
File Name: HYDE 1
Lat / N: 41.77504502
Lon / E: 73.95260894
PDOP or SVs: 11

Coordinate Units: Lat/Lon Feet
Datum: Y N Other NAD83
Proj.:
GPS GeoXH 6000 Series S/N# 5108400788 Serial #:

COMMENTS / NOTES



Feet of Tubing 10
Preparer's Initial: MM

FIELD DATA SHEET

Project Name: CHPE Hudson River		Proj. #: <u>24711.001</u>
Site Name: Hudson River		Task #: <u>10</u>
City: Poughkeepsie	State: NY	Date: <u>9/24/22</u>

Field Team Leader(s): MM Field Team Safety Coordinator: MM
 Field Crew: DJW CCB Arrival & Departure Times: 1014-1032
 Station ID #: HYDE PARK 3 Weather: Clear Cloudy Rain Temp: -
 Photos: Y (N) File Name: - Wind Conditions (Speed/Direction): 10-15 NW

FIELD DATA
 Water Depth: 52 ft. Tide: Ebb Flood Low Slack High Slack Other: N/A
 PID: N/A Redox Potential: N/A pH: N/A H²O Temp.: N/A Air Temp.: NA

SAMPLE/PUSH #1
 Core ID#: HYDE 3 Coring Time: 1025 Penetration Depth: 10 ft. Core Recovery: 9' 6" ft
 Sample Method: Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
 Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Deconned or Replaced: Y N

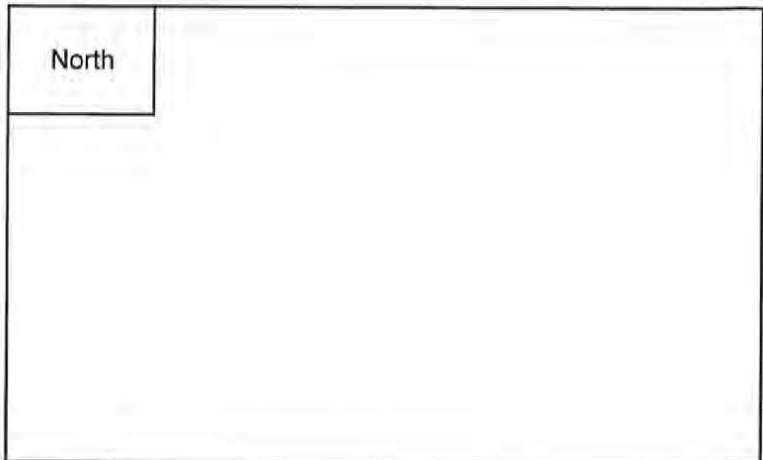
SAMPLE/PUSH #2
 Core ID#: _____ Coring Time: _____ Penetration Depth: _____ ft. Core Recovery: _____ ft
 Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
 Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Deconned or Replaced: Y N

SAMPLE/PUSH #3
 Core ID#: _____ Coring Time: _____ Penetration Depth: _____ ft. Core Recovery: _____ ft
 Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
 Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Deconned or Replaced: Y N

DGPS DATA
 Operator: MKM
 File Name: HYDE 3
 Lat / N: 41.177684613
 Lon / E: 73.95274617
 PDOP or SVs: 11

Coordinate Units: Lat/Lon Feet
 Datum: Y N Other WGS 84
 Proj.: _____
 GPS GeoXH 6000 Series S/N# 5108400788 Serial #:

COMMENTS / NOTES



Feet of Tubing 10
 Preparer's Initial: MM

FIELD DATA SHEET

Project Name: CHPE Hudson River		Proj. #: 24711.001
Site Name: Hudson River		Task #: 10
City: Poughkeepsie	State: NY	Date: 9/24/27

Field Team Leader(s): M/A Field Team Safety Coordinator: M/A
 Field Crew: DJV CCB Arrival & Departure Times: 1045 - 1115
 Station ID #: HYDE PARK 2 Weather: Clear Cloudy Rain Temp -
 Photos: Y (N) File Name: - Wind Conditions (Speed/Direction): 10-15 NW

FIELD DATA
 Water Depth: 49 ft. Tide: Ebb Flood Low Slack High Slack Other N/A
 PID: N/A Redox Potential: N/A pH: N/A H₂O Temp.: N/A Air Temp.: NA

SAMPLE/PUSH #1
 Core ID#: HYDE 2 Coring Time: 1057 Penetration Depth: 9' Core Recovery: 8' 9" ft
 Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" (3) 4"
 Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Deconned or Replaced: X N

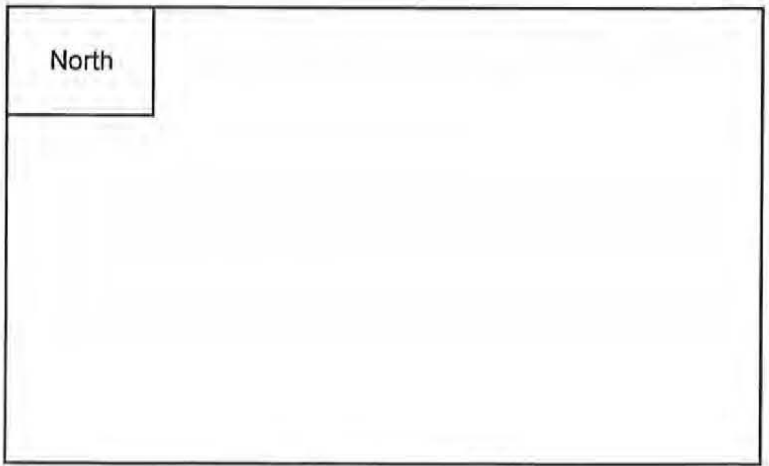
SAMPLE/PUSH #2
 Core ID#: _____ Coring Time: _____ Penetration Depth: _____ ft. Core Recovery: _____ ft
 Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
 Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Deconned or Replaced: Y N

SAMPLE/PUSH #3
 Core ID#: _____ Coring Time: _____ Penetration Depth: _____ ft. Core Recovery: _____ ft
 Sample Method: Ponar / Vibracore / Piston Core / Manual Coring Material: CAB / Aluminum / SS Core Diameter (OD): 2" 3" 4"
 Vibracore Type: Rossfelder / PVL / Portable Clamp-on / Mini Sampling Equipment Deconned or Replaced: Y N

DGPS DATA
 Operator: M/A
 File Name: HYDER
 Lat / N: 41.77865297
 Lon / E: 73.95289586
 PDOP of SVs: 10

Coordinate Units: Lat/Lon Feet
 Datum: (Y) N Other NAD83 84
 Proj.:
 GPS GeoXH 6000 Series S/N# 5108400788 Serial #:

COMMENTS / NOTES



Feet of Tubing 10
 Preparer's Initial: M/A

Soil Boring Logs

Collected: Date 9/25/22 Time

PROJECT NUMBER 24711.001, Task 10	BORING NUMBER Hyde Park 4
SHEET <u>1</u> OF <u>5</u>	
<h2 style="margin: 0;">Soil Boring Log</h2>	

PROJECT : CHPE Hudson River LOCATION : Poughkeepsie, NY

ELEVATION : DRILLING CONTRACTOR : Normandeau Associates, Inc.

DRILLING METHOD AND EQUIPMENT USED : Mini-Vibracore sediment sampling, 3 inch CAB tubing

WATER LEVELS : 61 START : 0855 END : 0930 LOGGER : DJW

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)			STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION	COMMENTS
	RECOVERY (FT)	#/TYPE				
0					Homogeneous Throughout very soft to soft very wet to damp GLEY 1/3/10Y medium plasticity cohesive, silty clay no odor, no sheen	VOA taken at 2 ft. at 0905 Hyde Park 4A 2 x 8oz. jars 1 VOA kit 1 x 16 oz. jar
4				↓		
9						

Collected: Date 9/25/22 Time

PROJECT NUMBER <u>24711.001, Task 10</u>	BORING NUMBER <u>Hyde Park 3</u> SHEET <u>2</u> OF <u>5</u>
<h1>Soil Boring Log</h1>	

PROJECT : CHPE Hudson River LOCATION : Poughkeepsie, NY
 ELEVATION : DRILLING CONTRACTOR : Normandeau Associates, Inc.
 DRILLING METHOD AND EQUIPMENT USED : Mini-Vibracore sediment sampling, 3 inch CAB tubing
 WATER LEVELS : 52 START : 0948 END : 1030 LOGGER : DJN

DEPTH BELOW SURFACE (FT)		STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION*	COMMENTS
INTERVAL (FT)	RECOVERY (FT) #/TYPE			
0			Homogeneous throughout very soft to soft very wet to damp GLEY 1/3 /10y medium plasticity cohesive, silty clay no odor, no sheen	Hyde Park 3A vOA taken at 2-ft. at 0955 2 x 8oz. jars 1 vOA kit 1 x 16 oz. jar
4				
9				

Collected: Date 9/25/22 Time

PROJECT NUMBER <u>24711.001, Task 10</u>	BORING NUMBER <u>Hyde Park 5</u> SHEET <u>3</u> OF <u>5</u>
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Soil Boring Log

PROJECT: <u>CHPE Hudson River</u>	LOCATION: <u>Poughkeepsie, NY</u>	
ELEVATION:	DRILLING CONTRACTOR: <u>Normandeau Associates, Inc.</u>	
DRILLING METHOD AND EQUIPMENT USED: <u>Mini-Vibracore sediment sampling, 3 inch CAB tubing</u>	START: <u>10:30</u>	END: <u>11:15</u>
WATER LEVELS: <u>70</u>	LOGGER: <u>DJN</u>	

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)		STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION	COMMENTS
	RECOVERY (FT)	#/TYPE			
0				Homogeneous throughout very soft to soft very wet to damp GEY 1/3/10y medium plasticity cohesive, silty clay no odor, no sheens	Hyde Park 5A VOA taken at 2 ft. at 1040 2 x 16 oz. jar 2 x 8 oz. jar
4				↓	Hyde Park 5B VOA taken at 6.5 ft at 1050 2 x 8 oz. jars 1 VOA kit 1 x 16oz. jar
9					

Collected: Date

Time

PROJECT NUMBER

24711.001, Task 10

BORING NUMBER

Hyde Park 2

SHEET 4 OF 5

Soil Boring Log

PROJECT: CHPE Hudson River

LOCATION: Poughkeepsie, NY

ELEVATION:

DRILLING CONTRACTOR:

Normandeau Associates, Inc.

DRILLING METHOD AND EQUIPMENT USED:

Mini-Vibracore sediment sampling, 3 inch CAB tubing

WATER LEVELS:

49

START: 1135

END: 1240

LOGGER:

DJN

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)		STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.
	RECOVERY (FT)	#/TYPE			
0				Homogeneous Throughout very soft to soft very wet to damp GLEY 1/3 / 10Y medium plasticity cohesive, silty clay no odor, no sheen	Hyde Park 2A VOA taken at 2 ft. at 1140 1 x 8 oz. jar 3 x 16 oz. jars
4					Hyde Park 2B VOA taken at 6.5 ft at 1145 2 x 8 oz. jars 2 x 16 oz. jars
9					

Collected: Date

Time

PROJECT NUMBER

24711.001, Task 10

BORING NUMBER

Hyde Park 1

SHEET 5 OF 5

Soil Boring Log

PROJECT : CHPE Hudson River

LOCATION : Poughkeepsie, NY

ELEVATION :

DRILLING CONTRACTOR :

Normandeau Associates, Inc.

DRILLING METHOD AND EQUIPMENT USED :

Mini-Vibracore sediment sampling, 3 inch CAB tubing

WATER LEVELS :

56

START : 1215

END : 1300

LOGGER :

DSN

DEPTH BELOW SURFACE (FT)		STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	CORE DESCRIPTION	COMMENTS
INTERVAL (FT)	RECOVERY (FT) #/TYPE			
0			Homogeneous Throughout very soft to soft very wet to damp GLEYS 1/3/10y medium plasticity cohesive, silty clay no odor, no sheen	Hyde Park 1 A VOA taken at 2 ft. at 1230 2 x 8 oz. jars 2 x 16 oz. jars
4			↓	Hyde Park 1 B VOA taken at 6.5 ft at 1240 2 x 8 oz. jars 2 x 16 oz. jars
9				

Sediment Core Photos

CHPE Hudson River
Location – Hyde Park
Project No. 24711.001, Task 10

Hyde Park 4
Top ← Bottom →

Project # 24711.00 /
Task 10



Hyde Park 4

Top



Bottom



Project # 24711.00 /
Task 10

